



Test Report

Report No. ESTC-240805015
Date: 31 Jul 2025
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APPLICANT : **Empower Tribe Commercial FZE**
LB181504WS13, Jebel Ali Freezone Dubai, United Arab Emirates

DATE OF SUBMISSION : 5 Aug 2024 & 17 Mar 2025

TEST PERIOD : 5 Aug 2024 to 14 Oct 2024
: 17 Mar 2025 to 18 Mar 2025

SAMPLE DESCRIPTION : Digital Mixer

Model No. : M32C

Trade name: Midas

*****FOR FURTHER DETAILS, PLEASE REFER FOR THE FOLLOWING PAGE(S)*****

EST TECHNOLOGY CO., LTD.

Spark Zhang
Manager, Chemical Department



RT/ZH

REMARK

If there are questions or concerns on this report, please contact the following persons:

Report Enquiry: (86-769) 83081888 Ext. 618 E-mail: gdest@gdest.cn

Business Contact: (86-769) 83081888



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SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
2.1	PASS	-
2.1	PASS	-
2.2	-	-
2.3	PASS	-
2.4	PASS	-
2.5	PASS	-
2.5	PASS	-
2.6	PASS	-
2.7	DATA	-
2.7	PASS	-
2.7	PASS	-
2.8	PASS	-
2.9	PASS	-
2.10	PASS	-
2.11	PASS	-
2.12	PASS	-

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1. Material List

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
001		Black coating	Coating, case, digital mixer	-
002		Black coated silvery metal	Case, digital mixer	-
003		Black plastic	Case, AC socket	-
004		Black soft plastic	Sleeve, AC socket	-
005		Silvery metal	AC plug	-
006		Silvery solder	Solder, AC socket	-
007		Yellow glue	Glue, AC socket	-
008		Blue soft plastic	Insulation	-
009		Brown soft plastic	Insulation	-
010		Yellow/green soft plastic	Insulation	-
011		Silvery metal	Wire, insulation	-
012		White plastic	Connector	-
013		Silvery metal	Terminal, case, digital mixer	-
014		Black plastic	Insulation board	-
015		Black soft plastic	Pads, case, digital mixer	-
016		Black plastic	Cover, digital mixer	-
017		Silvery plastic	Case, rotating button	-
018		Black plastic	Holder, rotating button	-
019		Silvery metal	Nut, rotating button	-
020		Silvery metal	Ring, rotating button	-
021		Silvery metal	Head, rotating button	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
022		Gray metal	Holder, rotating button	-
023		Silvery metal	Frame, digital mixer	-
024		Black plastic	Screen board	-
025		Black plastic	Button	-
026		White plastic	Holder, button	-
027		Translucent yellow plastic	Holder, button	-
028		Black coating	Coating, net, digital mixer	-
029		Black coated silvery metal	Net, digital mixer	-
030		Black coated silvery metal	Trademark, net, digital mixer	-
031			Coppery metal	Nut, PCB
032	Cyan metal		Nut, PCB	-
033	Silvery metal		Ring, nut, PCB	-
034	Black coated silvery metal		Long screw, digital mixer	-
035	Silvery metal		Screw, digital mixer	-
036	Cyan metal		Screw, digital mixer	-
037	Black coated silvery metal		Short screw, digital mixer	-
038		Black plastic	Connector	-
039		Silvery metal	Pin, connector	-
040		Black body	SMD resistor	-
041		Gray core	Core, inductance	-
042		Coppery metal	Coil, inductance	-

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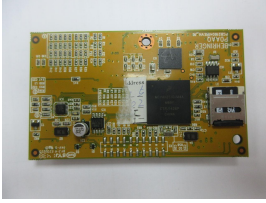


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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)	
043		Black body	SMD resistor	-	
044		Black body	SMD transistor	-	
045		Brown body	SMD capacitor	-	
046		Gray body	SMD inductance	-	
047		Black body	SMD IC6	-	
048		Transparent glass	Glass diode	-	
049		Translucent yellow plastic	Fixed	-	
050			Black body	SMD transistor	-
051			Black coated silvery metal	Electrolytic capacitor shell	-
052	Black soft plastic		Rubber seal	-	
053	Silvery metal		Aluminum foil	-	
054	Brown paper		Electrolytic paper	-	
055	Silvery metal		Horn, electrolytic capacitor	-	
056	Black plastic		Gasket, electrolytic capacitor	-	
057	Black body		SMD IC	-	
058	Silvery body		SMD crystal	-	
059	Black body		SMD diode	-	
060	Silvery metal		Case, SD card	-	
061	Brown plastic		Holder, SD card	-	
062	Silvery metal		Pin, SD card	-	
063	Black body		SD card	-	

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
064		Silvery solder	Solder, PCB	-
065		White coated nature printed yellow plastic	PCB	-
066		Black plastic	Frame, fan motor	-
067		Silvery metal	Nut, frame, fan motor	-
068		Silvery metal	Gasket, fan motor	-
069		Coppery metal	Ring, fan motor	-
070		Black printed silvery plastic	Label, fan motor	-
071		White plastic	Connector	-
072		Red soft plastic	Insulation	-
073		Black soft plastic	Insulation	-
074		Black soft plastic	Sleeve	-
075		Silvery solder	Solder, PCB	-
076		Black body	SMD IC	-
077		Silvery solder	Solder, PCB	-
078		White coated nature printed blue plastic	PCB	-
079		Black plastic	Blades, fan motor	-
080		Silvery metal	Case, fan motor	-
081		Black soft plastic	Soft magnet, fan motor	-
082		Silvery metal	Shaft, fan motor	-
083		Silvery metal	Plate, fan motor	-
084		Black plastic	Frame, fan motor	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
085		Silvery metal	Button	-
086		Silvery metal	Case, USB socket	-
087		Black plastic	Holder, USB socket	-
088		Silvery metal	Pin, USB socket	-
089		Translucent plastic	LED	-
090		Black plastic	Holder, LED	-
091		Silvery metal	Fixed, PCB	-
092		Black plastic	Connector	-
093		Silvery metal	Pin, connector	-
094		White printed black plastic	Electrolytic capacitor sleeve	-
095		White body	SMD transistor	-
096		White/black body	SMD resistor	-
097		Black body	SMD IC	-
098		Silvery body	SMD Q3	-
099		Black body	SMD XMOS	-
100		Silvery solder	Solder, PCB	-
101		White coated nature printed purple plastic	PCB	-
102		White plastic	Connector	-
103		Pink printed white soft plastic	Insulation	-
104		Black soft plastic	Sleeve	-
105	Red soft plastic	Insulation	-	

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
106		White soft plastic	Insulation	-
107		Green soft plastic	Insulation	-
108		Black soft plastic	Insulation	-
109		Black soft plastic	Cable jacket	-
110		Black plastic	Button, SW3	-
111		White plastic	Button, SW3	-
112		Black plastic	Holder, SW3	-
113		Silvery metal	Spring, SW3	-
114		Silvery metal	Contact plate, SW3	-
115		Green plastic	Holder, SW1	-
116		Silvery metal	Contact plate, SW1	-
117		Brown plastic	Board, SW1	-
118	Silvery metal	Pin, SW1	-	
119		Rice white plastic	Connector	-
120		Black plastic	Holder, connector	-
121		White body	SMD LED	-
122		White plastic	Frame, screen board	-
123		Transparent gray plastic	Plate, glass board	-
124		Transparent glass	Glass board	-
125		Blue glue	Glue, glass board	-
126		Coppery plastic	FRC	-
127	Black plastic	Plate, FRC	-	

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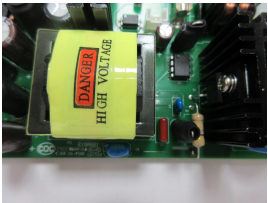


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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
128		Blue printed black plastic	Electrolytic capacitor sleeve	-
129		Silvery metal	Case, USB socket	-
130		White plastic	Holder, USB socket	-
131		Silvery metal	Pin, USB socket	-
132		Silvery solder	Solder, PCB	-
133		White coated nature printed purple plastic	PCB	-
134		White printed brown plastic	Electrolytic capacitor sleeve	-
135		Black soft plastic	Inductance sleeve	-
136		Gray core	Core, inductance	-
137		Copper metal	Coil, inductance	-
138		White plastic	Connector	-
139		Beige body	Resistor	-
140		Silvery metal	Pin, resistor	-
141		Black printed transparent plastic	Label, transformer	-
142		Yellow plastic with adhesive	Adhesive tape, transformer	-
143		Black plastic	Frame, transformer	-
144		Transparent plastic	Insulation	-
145		Gray core	Core, transformer	-
146		Copper metal	Coil, transformer	-
147		Copper metal	Film, transformer	-
148	Silvery solder	Solder, transformer	-	

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
149		Blue body	Capacitor	-
150		Dark red plastic	Capacitor sleeve	-
151		Silvery plastic	Filler, capacitor	-
152		Black soft plastic	FR1 sleeve	-
153		Gray body	FR1	-
154		Black body	IC1	-
155		Silvery metal	Pin, IC1	-
156		Blue body	MOV1	-
157		Black plastic	Gasket, capacitor	-
158		Black coated silvery metal	Heat sink	-
159		Silvery metal	Screw, heat sink	-
160		Black body	Transistor	-
161		Silvery metal	Pin, transistor	-
162		Black body	Diode	-
163		Translucent plastic	Connector	-
164		Yellow plastic	Capacitor sleeve	-
165		Silvery plastic	Filler, capacitor	-
166		Silvery metal	Cover, inductance	-
167		Black plastic	Frame, inductance	-
168		Gray core	Core, inductance	-
169		Copper metal	Coil, inductance	-



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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
170		Green body	NTC1	-
171		Silvery metal	Terminal, fuse	-
172		Silvery metal	Contact plate, fuse	-
173		White ceramic	Ceramic fuse	-
174		Black body	IC2	-
175		Black body	SMD diode	-
176		Black body	SND IC	-
177		White/black body	SMD resistor	-
178		Brown body	SMD capacitor	-
179		White body	SMD capacitor	-
180		Silvery solder	Solder, PCB	-
181		White coated nature printed green plastic	PCB	-
182		White plastic	Connector	-
183		Red soft plastic	Insulation	-
184		Black soft plastic	Insulation	-
185		Black plastic	Connector	-
186		Black plastic	Holder, battery	-
187		Silvery body	Battery	-
188		Silvery metal	Contact plate, battery	-
189		Black body	SMD U6	-
190		Silvery metal	Pin, SMD U6	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
191		Silvery body	SMD crystal	-
192		Black body	SMD U2	-
193		Gray body	SMD fuse	-
194		Silvery metal	Case, network	-
195		Black plastic	Holder, network	-
196		Green plastic	LED, network	-
197		Yellow plastic	LED, network	-
198		Silvery metal	Pin, network	-
199		Silvery metal	Case, X26	-
200		Black plastic	Holder, X26	-
201		Silvery metal	Pin, X26	-
202		Black plastic	Button	-
203		Silvery metal	Cover, button	-
204		Black plastic	Holder, button	-
205		Silvery metal	Gasket, button	-
206		Brown plastic	Connector	-
207		Silvery metal	Button	-
208		Black plastic	Holder, button	-
209		Silvery metal	Pin, button	-
210		Silvery metal	Case, button	-
211		Silvery metal	Ring, DC socket	-

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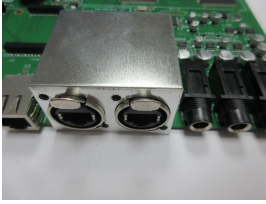


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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
212		Black plastic	Holder, DC socket	-
213		Silvery metal	Contact plate, DC socket	-
214		Black plastic	Rotating button	-
215		Gray metal	Head, rotating button	-
216		Orange plastic	Holder, rotating button	-
217		Silvery metal	Gasket, rotating button	-
218		Silvery solder	Solder, PCB	-
219		White coated nature printed green plastic	PCB	-

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2. Test Result

2.1 ROHS

Test Methods: Cadmium, Lead, Mercury, Chromium, Bromine

-With reference to IEC 62321-3-1: 2013 -XRF Screening Procedure

Instrument: Energy dispersive X-ray fluorescence spectrometer

for total Lead, Cadmium, Mercury

-Ref. to IEC 62321-4: 2013+AMD1:2017 & IEC 62321-5: 2013, analysis was performed by ICP-AES or AAS.

For Hexavalent Chromium

-Ref. to IEC 62321-7-1: 2015, nalysis was performed by Spot-test and water-boiling procedure.(Metal)

-Ref. to IEC 62321-7-2: 2017, analysis was performed by UV/VIS(Polymeric and electronics).

-Ref. to International Standard ISO 17075-1: 2017(Leather and other materials).

For PBBs, PBDEs

-Ref. to IEC 62321-6: 2015, analysis was performed by GC-MS.

For DBP, BBP, DEHP, DIBP

-With reference to International Standard IEC 62321-8:2017, Sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer.

Material No.	Test Item(s)	Test Result	Conclusion
001	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
002	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	

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Material No.	Test Item(s)	Test Result	Conclusion
003	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
004	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
005	Pb	28	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
006	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	

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Material No.	Test Item(s)	Test Result	Conclusion
007	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
008	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	300	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
009	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
010	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	410	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

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Material No.	Test Item(s)	Test Result	Conclusion
011	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
012	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
013	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
014	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

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Material No.	Test Item(s)	Test Result	Conclusion
015^	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
016	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
017	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
018	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

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Material No.	Test Item(s)	Test Result	Conclusion
019	Pb	16000(*1)	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
020	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
021	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
022	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	

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Material No.	Test Item(s)	Test Result	Conclusion
023	Pb	259	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
024	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
025	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
026	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

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Material No.	Test Item(s)	Test Result	Conclusion
027	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
028	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
029	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
030	Pb	17	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	

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Material No.	Test Item(s)	Test Result	Conclusion
031	Pb	32000(*1)	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
032	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
033	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
034	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	

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Material No.	Test Item(s)	Test Result	Conclusion
035	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
036	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
037	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
038	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

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Material No.	Test Item(s)	Test Result	Conclusion
039	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
040	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
041	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
042	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	

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Material No.	Test Item(s)	Test Result	Conclusion
043	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
044	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
045	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
046	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	

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Material No.	Test Item(s)	Test Result	Conclusion
047	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
048	Pb	4400(*3)	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
049	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
050	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	

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Material No.	Test Item(s)	Test Result	Conclusion
051	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
052	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
053	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
054	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	

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Material No.	Test Item(s)	Test Result	Conclusion
055	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
056	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
057	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
058	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	

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Material No.	Test Item(s)	Test Result	Conclusion
059	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		
060	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		
061	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
DIBP	ND		
062	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		

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Material No.	Test Item(s)	Test Result	Conclusion
063	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
064	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
065	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
066	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
DIBP	ND		

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Material No.	Test Item(s)	Test Result	Conclusion
067	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
068	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
069	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
070	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

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Material No.	Test Item(s)	Test Result	Conclusion
071	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
072	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
073	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
074	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

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Material No.	Test Item(s)	Test Result	Conclusion
075	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
076	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
077	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
078	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
DIBP	ND		

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Material No.	Test Item(s)	Test Result	Conclusion
079	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
080	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
081	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
082	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	

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Material No.	Test Item(s)	Test Result	Conclusion
083	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		
084	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
DIBP	ND		
085	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		
086	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		

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Material No.	Test Item(s)	Test Result	Conclusion
087	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
088	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
089	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
090	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

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Material No.	Test Item(s)	Test Result	Conclusion
091	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		
092	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
DIBP	ND		
093	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		
094	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
DIBP	ND		

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Material No.	Test Item(s)	Test Result	Conclusion
095	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
096	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
097	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
098	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		

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Material No.	Test Item(s)	Test Result	Conclusion
099	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
100	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
101	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
102	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
DIBP	ND		

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Material No.	Test Item(s)	Test Result	Conclusion
103	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
DIBP	ND		
104	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
DIBP	ND		
105	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
DIBP	ND		
106	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
DIBP	ND		

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Material No.	Test Item(s)	Test Result	Conclusion
107	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
108	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
109	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
110	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

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Material No.	Test Item(s)	Test Result	Conclusion
111	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
112	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
113	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
114	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	

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Material No.	Test Item(s)	Test Result	Conclusion
115	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
116	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
117	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
118	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	

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Material No.	Test Item(s)	Test Result	Conclusion
119	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
120	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
121	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
122	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

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Material No.	Test Item(s)	Test Result	Conclusion
123	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
DIBP	ND		
124	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		
125	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
DIBP	ND		
126	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
DIBP	ND		

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Material No.	Test Item(s)	Test Result	Conclusion
127	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
128	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
129	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
130	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

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Material No.	Test Item(s)	Test Result	Conclusion
131	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
132	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
133	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
134	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

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Material No.	Test Item(s)	Test Result	Conclusion
135	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
136	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
137	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
138	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

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Material No.	Test Item(s)	Test Result	Conclusion
139	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
140	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
141	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
142	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

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Material No.	Test Item(s)	Test Result	Conclusion
143	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
144	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	490	
	DIBP	ND	
145	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
146	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	

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Material No.	Test Item(s)	Test Result	Conclusion
147	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
148	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
149	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
150	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

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Material No.	Test Item(s)	Test Result	Conclusion
151	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
152	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
153	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
154	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	

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Material No.	Test Item(s)	Test Result	Conclusion
155	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		
156	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		
157	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
DIBP	ND		
158	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		

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Material No.	Test Item(s)	Test Result	Conclusion
159	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
160	Pb	19000(*2)	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
161	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
162	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		

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Material No.	Test Item(s)	Test Result	Conclusion
163	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
164	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
165	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
166	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	

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Material No.	Test Item(s)	Test Result	Conclusion
167	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
168	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
169	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
170	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	

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Material No.	Test Item(s)	Test Result	Conclusion
171	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		
172	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		
173	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		
174	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		

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Material No.	Test Item(s)	Test Result	Conclusion
175	Pb	7700(*2)	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
176	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
177	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
178	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	

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Material No.	Test Item(s)	Test Result	Conclusion
179	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
180	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
181	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
182	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

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Material No.	Test Item(s)	Test Result	Conclusion
183	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	300	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
184	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
185	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
186	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

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Material No.	Test Item(s)	Test Result	Conclusion
187	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
188	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
189	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
190	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		

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Material No.	Test Item(s)	Test Result	Conclusion
191	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
192	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
193	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
194	Pb	14	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		

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Material No.	Test Item(s)	Test Result	Conclusion
195	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
DIBP	ND		
196	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
DIBP	ND		
197	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
DIBP	ND		
198	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		

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Material No.	Test Item(s)	Test Result	Conclusion
199	Pb	13	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
200	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
201	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
202	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

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Material No.	Test Item(s)	Test Result	Conclusion
203	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
204	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
205	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
206	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

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Material No.	Test Item(s)	Test Result	Conclusion
207	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		
208	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
DIBP	ND		
209	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		
210	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		

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Material No.	Test Item(s)	Test Result	Conclusion
211^	Pb	30	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
212	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	
213	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
	DIBP	-	
214	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

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Material No.	Test Item(s)	Test Result	Conclusion
215	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		
216	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
DIBP	ND		
217	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		
218	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	Negative	
	PBBs	-	
	PBDEs	-	
	DBP	-	
	BBP	-	
	DEHP	-	
DIBP	-		

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Material No.	Test Item(s)	Test Result	Conclusion
219	Pb	ND	PASS
	Cd	ND	
	Hg	ND	
	Cr VI	ND	
	PBBs	ND	
	PBDEs	ND	
	DBP	ND	
	BBP	ND	
	DEHP	ND	
	DIBP	ND	

Remark:

(*1) According to Annex III of European Parliament and Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 6(c) is reiterated here “Copper alloy containing up to 4 % lead by weight”.

(*2) According to Annex III of European Parliament and Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 7(a) is reiterated here “Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)”.

(*3) According to Annex III of European Parliament and Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 7(c)-I is reiterated here “Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound”.

Note / Key:

ND = Not Detected “D” = detected “BL” = below Limit
“X” = Inconclusive Range “DL” = Detection Limit “OL” = over Limit
NA = Not Applicable 10000 mg/kg = 1 %
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
Detection Limit : See Appendix.



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Detection Limit

List of Analytes Detection Limit and Maximum Allowable Limit [Compliance Test for European Council Directive 2011/65/EU] :						
No.	Name of Analytes	Detection Limit (mg/kg)				Maximum Allowable Limit (mg/kg)
		X-ray fluorescence (XRF) ^[a]			Wet Chemistry	
		Plastic	Metallic / glass / ceramic	Others		
1	Lead (Pb)	100	200	200	10	1000
2	Cadmium (Cd)	50	50	50	10	100
3	Mercury (Hg)	100	200	200	10	1000
4	Chromium (Cr)	100	200	200	NA	NA
5	Chromium VI (Cr VI)	NA	NA	NA	10 /Sec ^[a, b]	1000 / Negative ^[b]
6	Bromine (Br)	200	NA	200	NA	NA
7	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	NA	NA	NA	Each 50	Sum 1000
8	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	NA	NA	NA	Each 50	Sum 1000
9	- Butyl benzyl phthalate (CAS No: 85-68-7) (BBP)	NA	NA	NA	50	1000
10	- Dibutyl phthalate (CAS No: 84-74-2) (DBP)	NA	NA	NA	50	1000
11	- Di(2-ethylhexyl) phthalate (CAS No: 117-81-7) (DEHP)	NA	NA	NA	50	1000
12	- Diisobutyl phthalate (CAS No: 84-69-5) (DiBP)	NA	NA	NA	50	1000
[a]	The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples.					

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[b]	Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Parliament and Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1).
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2.2 SVHC 241

Test Method:	In-House method, Analysis is based on GC, LC, IC, ICP, with various detection techniques and UV.
Maximum Allowable Limit :	0.1% (Each of Listed)

Test Item(s)	Result		
	Detected Analyte(s)	Conc.	Unit
001+007+028+07 2+073+103+105+ 106+107+109	ND	ND	%
002+006+011+01 3+020+021+022+ 029+030+032	ND	ND	%
003+016+018+02 5+065+078+101+ 133+181+219	ND	ND	%
004+052+090+11 1+123+167+184+ 196+197+202	ND	ND	%
005	ND	ND	%
008	DBP: Others:	0.030 ND	%
009+024+044+07 4+081+089+104+ 135+152	ND	ND	%
010	DBP: Others:	0.041 ND	%
012+014+038+04 6+056+084+130+ 157+164+200	ND	ND	%
015^	ND	ND	%
017+027+049+06 1+071+102+122+ 163+182+206	ND	ND	%
019	Pb: Others:	1.60 ND	%
023	Pb: Others:	0.0259 ND	%
026+110+112+11 5+119+120+138+ 143+150+204	ND	ND	%
031	Pb: Others:	3.20 ND	%

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033+034+035+036+037+039+042+051+053+055	ND	ND	%
040+041+043+044+045+046+047+050+057+058	ND	ND	%
048	Pb: Others:	0.44 ND	%
054	ND	ND	%
059+063+076+095+096+097+098+099+121+136	ND	ND	%
060+062+064+067+068+069+075+077+080+082	ND	ND	%
066+079+087+092+117+185+186+195+208+212	ND	ND	%
070+094+126+127+128+134+141+142+151+165	ND	ND	%
083+085+086+088+091+093+100+113+114+116	ND	ND	%
108+125	ND	ND	%
118+129+131+132+137+140+146+147+148+155	ND	ND	%
124+173	ND	ND	%
139+145+149+153+154+156+162+168+170+174	ND	ND	%
144	DEHP: Others:	0.049 ND	%
158+159+161+166+169+171+172+180+188+190	ND	ND	%
160	Pb: Others:	1.90 ND	%
175	Pb: Others:	0.77 ND	%
176+177+178+179+187+189+191+192+193	ND	ND	%
183	DBP: Others:	0.030 ND	%

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194+198+199+201+203+205+207+209+210+213	ND	ND	%
211^	ND	ND	%
215+217+218	ND	ND	%

Note / Key:

ND = Not detected
“>” = Greater than
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
% = percent
10000 mg/kg = 1 %
Detection Limit (%) : See Appendix.



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Candidate List of Substances of Very High Concern for authorization published by European Chemicals Agency (ECHA) Regarding Regulation (EC) No. 1907/2006 concerning REACH

No.	Substance name	CAS No.	EC No.	Detection Limit, %	Basis for identification as a SVHC
1	Triethyl arsenate*	15606-95-8	427-700-2	0.01	Carcinogenic
2	Anthracene	120-12-7	204-371-1	0.01	PBT
3	4,4'-Diaminodiphenyl methane (MDA)	101-77-9	202-974-4	0.01	Carcinogenic
4	Dibutyl phthalate (DBP)	84-74-2	201-557-4	0.01	Toxic for reproduction
5	Cobalt dichloride*	7646-79-9	231-589-4	0.01	Carcinogenic
6	Diarsenic pentaoxide*	1303-28-2	215-116-9	0.01	Carcinogenic
7	Diarsenic trioxide*	1327-53-3	215-481-4	0.01	Carcinogenic
8	Sodium dichromate*	7789-12-0 ⁽¹⁾ , 10588-01-9 ⁽²⁾	234-190-3	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
9	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	0.01	vPvB
10	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	0.01	Toxic for reproduction; Equivalent level of concern having probable serious effects to human health
11	Hexabromo cyclododecane (HBCDD) and all major diastereoisomers identified: α - HBCDD β - HBCDD γ - HBCDD	3194-55-6 ⁽³⁾ , 25637-99-4 ⁽⁴⁾ 134237-50-6 134237-51-7 134237-52-8	247-148-4, 221-695-9	0.01	PBT
12	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5	0.01	PBT, vPvB
13	Bis(tributyltin)oxide (TBTO)**	56-35-9	200-268-0	0.01	PBT
14	Lead hydrogen arsenate*	7784-40-9	232-064-2	0.01	Carcinogenic; Toxic for reproduction
15	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	0.01	Toxic for reproduction
16	2,4-Dinitrotoluene	121-14-2	204-450-0	0.01	Carcinogenic
17	Anthracene oil	90640-80-5	292-602-7	0.01	Carcinogenic, PBT, vPvB
18	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5	0.01	Carcinogenic; Mutagenic, PBT, vPvB
19	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	0.01	Carcinogenic; Mutagenic, PBT, vPvB

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20	Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.01	Carcinogenic; Mutagenic, PBT, vPvB
21	Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.01	Carcinogenic; Mutagenic, PBT, vPvB
22	Diisobutyl phthalate	84-69-5	201-553-2	0.01	Toxic for reproduction
23	Aluminosilicate, Refractory Ceramic Fibres* ^a	Index no. 650-017-00-8		0.01	0.01
24	Zirconia Aluminosilicate, Refractory Ceramic Fibres* ^b	Index no. 650-017-00-8		0.01	0.01
25	Lead chromate*	7758-97-6	231-846-0	0.01	Carcinogenic; Toxic for reproduction
26	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	0.01	Carcinogenic; Toxic for reproduction
27	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	0.01	Carcinogenic; Toxic for reproduction
28	Tris(2-chloroethyl) phosphate	115-96-8	204-118-5	0.01	Toxic for reproduction
29	Coal tar pitch, high temperature	65996-93-2	266-028-2	0.01	Carcinogenic, PBT, vPvB
30	Acrylamide	79-06-1	201-173-7	0.01	Carcinogenic; Mutagenic
31	Trichloroethylene	79-01-6	201-167-4	0.01	Carcinogenic
32	Boric acid*	10043-35-3, 11113-50-1	233-139-2 / 234-343-4	0.01	Toxic for reproduction
33	Disodium tetraborate, anhydrous*	1330-43-4 ⁽⁵⁾ , 12179-04-3 ⁽⁶⁾ , 1303-96-4 ⁽⁷⁾	215-540-4	0.01	Toxic for reproduction
34	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	0.01	Toxic for reproduction
35	Sodium chromate*	7775-11-3	231-889-5	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
36	Potassium chromate*	7789-00-6	232-140-5	0.01	Carcinogenic; Mutagenic
37	Ammonium dichromate*	7789-09-5	232-143-1	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
38	Potassium dichromate*	7778-50-9	231-906-6	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
39	Cobalt(II) sulphate*	10124-43-3	233-334-2	0.01	Carcinogenic; Toxic for reproduction
40	Cobalt(II) dinitrate*	10141-05-6	233-402-1	0.01	Carcinogenic; Toxic for reproduction
41	Cobalt(II) carbonate*	513-79-1	208-169-4	0.01	Carcinogenic; Toxic for reproduction
42	Cobalt(II) diacetate*	71-48-7	200-755-8	0.01	Carcinogenic; Toxic for reproduction

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43	2-Methoxyethanol	109-86-4	203-713-7	0.01	Toxic for reproduction
44	2-Ethoxyethanol	110-80-5	203-804-1	0.01	Toxic for reproduction
45	Chromium trioxide*	1333-82-0	215-607-8	0.01	Carcinogenic; Mutagenic
46	Acid generated from chromium trioxide and their oligomers:				
	Chromic acid*	7738-94-5	231-801-5	0.01	Carcinogenic
	Dichromic acid*	13530-68-2	236-881-5		
	Oligomers of chromic acid and dichromic acid*	-	-		
47	2-Ethoxyethyl acetate	111-15-9	203-839-2	0.01	Toxic for reproduction
48	Strontium Chromate*	7789-06-2	232-142-6	0.01	Carcinogenic
49	1,2-benzenedicarboxylic acid, di-C7-11 branched alkyl ester and linear alkyl ester	68515-42-4	271-084-6	0.01	Toxic for reproduction
50	Hydrazine	302-01-2 7803-57-8	206-114-9	0.01	Carcinogenic
51	1-Methyl-2-pyrrolidone	872-50-4	212-828-1	0.01	Toxic for reproduction
52	1,2,3-trichloropropane	96-18-4	202-486-1	0.01	Toxic for reproduction
53	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl ester, C7-rich (DIHP)	71888-89-6	276-158-1	0.01	Toxic for reproduction
54	Dichromium tris(chromate)*	24613-89-6	246-356-2	0.01	Carcinogenic
55	Potassium hydroxyoctaoxodizincatedi-chromate*	11103-86-9	234-329-8	0.01	Carcinogenic
56	Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	0.01	Carcinogenic
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	0.01	Carcinogenic
58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	0.01	Toxic for reproduction
59	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	0.01	Carcinogenic
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	0.01	Equivalent level of concern
61	1,2-Dichloroethane	107-06-2	203-458-1	0.01	Carcinogenic
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.01	Toxic for reproduction
63	Arsenic acid*	7778-39-4	231-901-9	0.01	Carcinogenic
64	Calcium arsenate*	7778-44-1	231-904-5	0.01	Carcinogenic
65	Trilead diarsenate*	3687-31-8	222-979-5	0.01	Carcinogenic; Toxic for reproduction
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.01	Toxic for reproduction

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67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	0.01	Carcinogenic
68	Phenolphthalein	77-09-8	201-004-7	0.01	Carcinogenic
69	Lead azide, Lead diazide*	13424-46-9	236-542-1	0.01	Toxic for reproduction
70	Lead styphnate*	15245-44-0	239-290-0	0.01	Toxic for reproduction
71	Lead dipicrate*	6477-64-1	229-335-2	0.01	Toxic for reproduction
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.01	Toxic for reproduction
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.01	Toxic for reproduction
74	Diboron trioxide*	1303-86-2	215-125-8	0.01	Toxic for reproduction
75	Formamide	75-12-7	200-842-0	0.01	Toxic for reproduction
76	Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	0.01	Toxic for reproduction
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) [§]	2451-62-9	219-514-3	0.01	Mutagenic
78	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) [§]	59653-74-6	423-400-0	0.01	Mutagenic
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	0.01	Carcinogenic
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	0.01	Carcinogenic
81	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	0.01	Carcinogenic
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	219-943-6	0.01	Carcinogenic
83	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	0.01	Carcinogenic

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84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	0.01	Carcinogenic
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	0.01	Persistent, bioaccumulative and toxic; very persistent and very bioaccumulative
86	N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5	0.01	Toxic for reproduction
87	Methoxy acetic acid	625-45-6	210-894-6	0.01	Toxic for reproduction ; equivalent level of concern
88	Dibutyltin dichloride (DBT) ^{db}	683-18-1	211-670-0	0.01	Toxic for reproduction
89	1,2-Diethoxyethane	629-14-1	211-076-1	0.01	Toxic for reproduction
90	Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	0.01	Equivalent level of concern
91	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	0.01	Equivalent level of concern
92	4-Nonylphenol, branched and linear - substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	-	-	0.01	Equivalent level of concern
93	Heptacosaf fluorotetradecanoic acid	376-06-7	206-803-4	0.01	Very persistent and very bioaccumulative
94	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear ⁺	84777-06-0	284-032-2	0.01	Toxic for reproduction
95	Henicosaf fluoroundecanoic acid	2058-94-8	218-165-4	0.01	Very persistent and very bioaccumulative
96	N-pentyl-isopentylphthalate (iPnPP) ⁺	776297-69-9	-	0.01	Toxic for reproduction

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97	Pentacosafluorotridecanoic acid	72629-94-8	276-745-2	0.01	Very persistent and very bioaccumulative
98	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	-	-	0.01	Equivalent level of concern
99	Tricosafuorododecanoic acid	307-55-1	206-203-2	0.01	Very persistent and very bioaccumulative
100	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	0.01	Toxic for reproduction
101	Lead tetroxide (orange lead)*	1314-41-6	215-235-6	0.01	Toxic for reproduction
102	Diethyl sulphate	64-67-5	200-589-6	0.01	Carcinogenic; Mutagenic
103	Dinoseb	88-85-7	201-861-7	0.01	Toxic for reproduction
104	Lead Titanium Zirconium Oxide*	12626-81-2	235-727-4	0.01	Toxic for reproduction
105	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	0.01	Toxic for reproduction
106	Furan	110-00-9	203-727-3	0.01	Carcinogenic
107	N-methylacetamide	79-16-3	201-182-6	0.01	Toxic for reproduction
108	o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0	0.01	Carcinogenic
109	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	0.01	Toxic for reproduction
110	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.01	Carcinogenic; Mutagenic
111	[Phthalato(2-)]dioxotrilead (Dibasic lead phthalate)*	69011-06-9	273-688-5	0.01	Toxic for reproduction
112	Lead titanium trioxide*	12060-00-3	235-038-9	0.01	Toxic for reproduction
113	Lead oxide sulphate*	12036-76-9	234-853-7	0.01	Toxic for reproduction
114	Lead dinitrate*	10099-74-8	233-245-9	0.01	Toxic for reproduction
115	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6	0.01	Carcinogenic
116	Lead cyanamidate*	20837-86-9	244-073-9	0.01	Toxic for reproduction
117	Tetralead trioxide sulphate*	12202-17-4	235-380-9	0.01	Toxic for reproduction
118	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1	0.01	Carcinogenic
119	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	0.01	Toxic for reproduction
120	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	215-290-6	0.01	Toxic for reproduction
121	Dimethyl sulphate	77-78-1	201-058-1	0.01	Carcinogenic
122	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	0.01	Toxic for reproduction

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123	Silicic acid, barium salt, lead-doped*	68784-75-8	272-271-5	0.01	Toxic for reproduction
124	Biphenyl-4-ylamine	92-67-1	202-177-1	0.01	Carcinogenic
125	Lead oxide (lead monoxide)*	1317-36-8	215-267-0	0.01	Toxic for reproduction
126	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	0.01	Toxic for reproduction
127	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	0.01	Carcinogenic; Mutagenic
128	Silicic acid, lead salt*	11120-22-2	234-363-3	0.01	Toxic for reproduction
129	Trilead dioxide phosphonate*	12141-20-7	235-252-2	0.01	Toxic for reproduction
130	o-aminoazotoluene	97-56-3	202-591-2	0.01	Carcinogenic
131	1-bromopropane	106-94-5	203-445-0	0.01	Toxic for reproduction
132	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	0.01	Carcinogenic
133	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.01	Carcinogenic
134	Tetraethyllead*	78-00-2	201-075-4	0.01	Toxic for reproduction
135	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	0.01	Toxic for reproduction
136	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	0.01	Toxic for reproduction
137	Diisopentylphthalate ⁺	605-50-5	210-088-4	0.01	Toxic for reproduction
138	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	0.01	Equivalent level of concern
139	Cadmium*	7440-43-9	231-152-8	0.01	Carcinogenic; Equivalent level of concern
140	Cadmium oxide*	1306-19-0	215-146-2	0.01	Carcinogenic; Equivalent level of concern
141	Dipentyl phthalate (DPP) ⁺	131-18-0	205-017-9	0.01	Toxic for reproduction
142	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	-	0.01	Equivalent level of concern
143	Ammonium pentadecafluorooctanoate (APFO) [≠]	3825-26-1	223-320-4	0.01	Toxic for reproduction; PBT

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144	Pentadecafluorooctanoic acid (PFOA) [‡]	335-67-1	206-397-9	0.01	Toxic for reproduction; PBT
145	Cadmium sulphide*	1306-23-6	215-147-8	0.01	Carcinogenic; Equivalent level of concern
146	Diethyl phthalate	84-75-3	201-559-5	0.01	Toxic for reproduction
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	0.01	Carcinogenic
148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	217-710-3	0.01	Carcinogenic
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	0.01	Toxic for reproduction
150	Lead di(acetate)*	301-04-2	206-104-4	0.01	Toxic for reproduction
151	Trixylyl phosphate	25155-23-1	246-677-8	0.01	Toxic for reproduction
152	Cadmium chloride*	10108-64-2	233-296-7	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health
153	1,2-Benzenedicarboxylic acid, diethyl ester, branched and linear ⁺⁺	68515-50-4	271-093-5	0.01	Toxic for reproduction
154	Sodium peroxometaborate*	7632-04-4	231-556-4	0.01	Toxic for reproduction
155	Sodium perborate; perboric acid, sodium salt*	-	239-172-9; 234-390-0	0.01	Toxic for reproduction
156	Cadmium fluoride*	7790-79-6	232-222-0	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health

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157	Cadmium sulphate*	10124-36-4; 31119-53-6	233-331-6	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health
158	2-benzotriazol-2-yl-4,6-di- tert-butylphenol (UV-320)	3846-71-7	223-346-6	0.01	PBT; vPvB
159	2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)	25973-55-1	247-384-8	0.01	PBT; vPvB
160	2-ethylhexyl 10-ethyl-4,4- dioctyl-7-oxo-8-oxa-3,5- dithia-4-stannatetradecanoate (DOTE) ^{db}	15571-58-1	239-622-4	0.01	Toxic for Reproduction
161	Reaction mass of 2- ethylhexyl 10-ethyl-4,4- dioctyl-7-oxo-8-oxa-3,5- dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4- [[2-[(2-ethylhexyl)oxy]-2- oxoethyl]thio]-4-octyl-7-oxo- 8-oxa-3,5-dithia-4- stannatetradecanoate (reaction mass of DOTE and MOTE) ^{db}	-	-	0.01	Toxic for Reproduction
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2- benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5; 68648-93-1	271-094-0; 272-013-1	0.01	Toxic for reproduction
163	5-sec-butyl-2-(2,4- dimethylcyclohex-3-en-1-yl)- 5-methyl-1,3-dioxane [1], 5- sec-butyl-2-(4,6- dimethylcyclohex-3-en-1-yl)- 5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	-	0.01	Very persistent and very bioaccumulative
164	1,3-propanesultone	1120-71-4	214-317-9	0.01	Carcinogenic
165	2,4-di-tert-butyl-6-(5- chlorobenzotriazol-2- yl)phenol (UV-327)	3864-99-1	223-383-8	0.01	vPvB
166	2-(2H-benzotriazol-2-yl)-4- (tert-butyl)-6-(sec- butyl)phenol (UV-350)	36437-37-3	253-037-1	0.01	vPvB
167	Nitrobenzene	98-95-3	202-716-0	0.01	Toxic for reproduction

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168	Perfluorononan-1-oic acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4	206-801-3	0.01	Toxic for reproduction; PBT
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	0.01	Carcinogenic ; Mutagenic ; Toxic for reproduction; PBT ; vPvB
170	4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	201-245-8	0.01	Toxic for reproduction
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	206-400-3 - 221-470-5	0.01	Toxic for reproduction; PBT
172	p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9	0.01	Equivalent level of concern having probable serious effects to environment
173	4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	-	0.01	Equivalent level of concern having probable serious effects to environment
174	Perfluorohexane-1-sulphonic acid and its salts	335-46-4	206-587-1	0.01	vPvB
175	Dechlorane Plus(TM) and reaction products of 1,3,4-thiadiazolidine-2,5-dithione	-	13560-89-9; 135821-74-8; 135821-03-3	0.01	vPvB
176	benz[a]anthracene	200-280-6	56-55-3	0.01	PBT vPvB
177	cadmium nitrate	233-710-6	10325-94-7	0.01	Carcinogenic; Mutagenic
178	cadmium carbonate	208-168-9	513-76-0	0.01	Carcinogenic; Mutagenic
179	cadmium hydroxide	244-168-5	21041-95-2	0.01	Carcinogenic; Mutagenic
180	chrysene	205-923-4	218-01-9	0.01	PBT vPvB
181	ormaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4 heptylphenol, branched and linear]	-	-	0.01	Environmental endocrine disruptors
182	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	0.01	PBT vPvB
183	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.01	PBT vPvB

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184	Dodecamethylcyclohexasil oxane (D6)	540-97-6	208-762-8	0.01	PBT vPvB
185	Lead	7439-92-1	231-100-4	0.01	Toxic for reproduction
186	Disodium octaborate	12008-41-2	234-541-0	0.01	Toxic for reproduction
187	Benzo[ghi]perylene	191-24-2	205-883-8	0.01	PBT vPvB
188	Terphenyl, hydrogenated	61788-32-7	262-967-7	0.01	vPvB
189	Terphenyl, hydrogenated (EDA)	107-15-3	203-468-6	0.01	Respiratory sensitising properties
190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride; TMA)	552-30-7	209-008-0	0.01	Respiratory sensitising properties
191	Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9	0.01	Toxic for reproduction Endocrine disrupting properties
192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	239-139-9	0.01	Endocrine disrupting properties (Article 57(f) - environment)
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	0.01	Toxic for reproduction (Article 57c)
194	Benzo[k]fluoranthene	207-08-9	205-916-6	0.01	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
195	Fluoranthene	206-44-0; 93951-69-0	205-912-4	0.01	PBT (Article 57d) vPvB (Article 57e)
196	Phenanthrene	85-01-8	201-581-5	0.01	vPvB (Article 57e)
197	Pyrene	129-00-0; 1718-52-1	204-927-3	0.01	PBT (Article 57d) vPvB (Article 57e)
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	-	-	0.01	Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health) Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)
199	2-methoxyethyl acetate	110-49-6	203-772-9	0.01	Toxic for reproduction (Article 57c)
200	4-tert-butylphenol	98-54-4	202-679-0	0.01	Endocrine disrupting properties (Article 57(f) - environment)

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201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with \geq 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	0.01	Endocrine disrupting properties (Article 57(f) - environment)
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3	119313-12-1	0.01	Toxic for reproduction
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	0.01	Toxic for reproduction
204	Diisohexyl phthalate	71850-09-4	276-090-2	0.01	Toxic for reproduction
205	Perfluorobutane sulfonic acid (PFBS) and its salts	/	/	0.01	Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health) Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)
206	1-vinylimidazole	1072-63-5	214-012-0	0.01	Toxic for reproduction (Article 57c)
207	2-methylimidazole	693-98-1	223-383-8	0.01	Toxic for reproduction (Article 57c)
208	Butyl 4-hydroxybenzoate	94-26-8	253-037-1	0.01	Endocrine disrupting properties (Article 57(f) - human health)
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	201-545-9	0.01	Toxic for reproduction (Article 57c)
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	205-594-7	0.01	Toxic for reproduction (Article 57c)
211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety dioctyltin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs.	/	/	0.01	Toxic for reproduction (Article 57c)

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212	1,4-dioxane	204-661-8	123-91-1	0.01	Carcinogenic; Equivalent level of concern having probable serious effects to human health; human; Equivalent level of concern having probable serious effects to the environment;
213	2,2bis(bromomethyl)propane 1,3-diol (BMP) 2,2-dimethylpropan-1-ol, tribromo derivative/ 3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0, 36483-57-5, 1522-92-5, 96-13-9	221-967-7, 253-057-0, 202-480-9	0.01	Carcinogenic
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	75166-31-3, 80-54-6, 75166-30-2	201-289-8	0.01	Toxic for reproduction
215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	201-025-1	0.01	Endocrine disrupting properties; Endocrine disrupting properties
216	Glutaral	111-30-8	203-856-5	0.01	Respiratory sensitising properties
217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	1372804-76-6, 85535-85-9, 198840-65-2	287-477-0, 950-299-5	0.01	PBT; vPvB
218	Orthoboric acid, sodium salt	25747-83-5, 22454-04-2, 14312-40-4, 1333-73-9, 13840-56-7	238-253-6, 215-604-1, 237-560-2	0.01	Toxic for reproduction
219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)	210555-94-5, 27147-75-7, 121158-58-5, 74499-35-7, 57427-55-1	310-154-3	0.01	Toxic for reproduction; Endocrine disrupting properties; Endocrine disrupting properties

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220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	-	0.01	Endocrine disrupting properties
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	204-327-1	0.01	Toxic for reproduction
222	S-(tricyclo(5.2.1.0 ^{2,6})deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	401-850-9	0.01	PBT
223	tris(2-methoxyethoxy)vinylsilane	1067-53-4	213-934-0	0.01	Toxic for reproduction
224	N-(hydroxymethyl)acrylamide	924-42-5	213-103-2	0.01	Carcinogenic; Mutagenic
225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	253-692-3	0.01	vPvB
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	201-236-9	0.01	Carcinogenic
227	4,4'-sulphonyldiphenol	80-09-1	201-250-5	0.01	Toxic for reproduction; Endocrine disrupting properties; Endocrine disrupting properties;
228	Barium diboron tetraoxide	13701-59-2	237-222-4	0.01	Toxic for reproduction
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	-	0.01	vPvB
230	Isobutyl 4-hydroxybenzoate	4274-02-3	224-208-8	0.01	Endocrine disrupting properties

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231	Melamine	108-78-1	203-615-4	0.01	Equivalent level of concern having probable serious effects to human health; Equivalent level of concern having probable serious effects to the environment
232	Perfluoroheptanoic acid and its salts	-	-	0.01	Toxic for reproduction; PBT; vPvB; Equivalent level of concern having probable serious effects to human health; Equivalent level of concern having probable serious effects to the environment
233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	473-390-7	0.01	vPvB
234	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	278-355-8	0.01	Toxic for reproduction
235	Bis(4-chlorophenyl)sulphone	80-07-9	201-247-9	0.01	vPvB
236	2,4,6-tri-tert-butylphenol	732-26-3	211-989-5	0.01	Toxic for reproduction; PBT
237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	221-573-5	0.01	vPvB
238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	438-340-0	0.01	Toxic for reproduction (Article 57c)
239	Bumetrizole (UV-326)	3896-11-5	223-445-4	0.01	vPvB
240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	700-960-7	0.01	vPvB

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241	Bis(α,α -dimethylbenzyl) peroxide	80-43-3	201-279-3	0.01	Toxic for reproduction
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- (1) CAS no. 7789-12-0 refers to sodium dichromate dihydrate
- (2) CAS no. 10588-01-9 refers to anhydrous sodium dichromate
- (3) CAS no. 3194-55-6 refers to a specific HBCDD - 1,2,5,6,9,10-hexabromocyclododecane
- (4) CAS no. 25637-99-4 refers to unspecific HBCDD isomer composition
- (5) CAS no. 1330-43-4 refers to disodium tetraborate, anhydrous
- (6) CAS no. 12179-04-3 refers to sodium tetraborate, pentahydrate
- (7) CAS no. 1303-96-4 refers to sodium tetraborate, decahydrate



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Remark:

- The list of Candidate List of Substances of Very High Concern for authorization published by European Chemicals Agency (ECHA) Regarding Regulation (EC) No. 1907/2006 concerning REACH and is summarized in table of appendix.

The table above only shows detected SVHC, and SVHC that below RL are not reported.

Please refer to Appendix for the full list of tested SVHC.

*Result is based on the heavy metal or inorganic element concentration. Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.

**Result is identified by tributyltin (TBT). Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.

§TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) and β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) are reported as a mixture.

aRefer to Aluminosilicate, Refractory Ceramic Fibres fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight.

bRefer to Zirconia Aluminosilicate, Refractory Ceramic Fibres fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight.

+ [1,2-Benzenedicarboxylic acid, dipentylester, branched and linear] is a mixture of phthalates contains DPP, DIPP and N-pentyl-isopentylphthalate.

++ [1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear] is a mixture of phthalates contains dihexyl phthalate.

ⓁResult is based on the tin metal concentration, and further confirmation for checking DBT, DOTE & MOTE concentration.



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2.3 Phthalates

Phthalates content of the client's request

Test Methods:

Sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer.

Test Parameter:	CAS NO	Client's Limit (%):	Result (%)			
			001	003	007	008
DEHP	117-81-7	0.1	ND	ND	ND	ND
DBP	84-74-2	0.1	ND	ND	ND	0.03
BBP	85-68-7	0.1	ND	ND	ND	ND
DIBP	84-69-5	0.1	ND	ND	ND	ND
DINP	28553-12-0, 68515-48-0	0.1	ND	ND	ND	ND
DIDP	26761-40-0, 68515-49-1	0.1	ND	ND	ND	ND
DNOP	117-84-0	0.1	ND	ND	ND	ND
DMEP	117-82-8	0.1	ND	ND	ND	ND
DIHP-A	71888-89-6	0.1	ND	ND	ND	ND
DHNUP	68515-42-4	0.1	ND	ND	ND	ND
DPP	84777-06-0	0.1	ND	ND	ND	ND
DIPP	605-50-5	0.1	ND	ND	ND	ND
DNPP	131-18-0	0.1	ND	ND	ND	ND
DIHP-B	68515-50-4	0.1	ND	ND	ND	ND
DnHP	84-75-3	0.1	ND	ND	ND	ND
PIPP	776297-69-9	0.1	ND	ND	ND	ND
DCHP	84-61-7	0.1	ND	ND	ND	ND
DMP	131-11-3	0.1	ND	ND	ND	ND
DEP	84-66-2	0.1	ND	ND	ND	ND
DUP	3648-20-2	0.1	ND	ND	ND	ND
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	68515-51-5, 68648-93-1	0.1	ND	ND	ND	ND
Conclusion		-	PASS	PASS	PASS	PASS

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Test Parameter:	CAS NO	Client's Limit (%):	Result (%)			
			009	010	015^	016
DEHP	117-81-7	0.1	ND	ND	ND	ND
DBP	84-74-2	0.1	ND	0.041	ND	ND
BBP	85-68-7	0.1	ND	ND	ND	ND
DIBP	84-69-5	0.1	ND	ND	ND	ND
DINP	28553-12-0, 68515-48-0	0.1	ND	ND	ND	ND
DIDP	26761-40-0, 68515-49-1	0.1	ND	ND	ND	ND
DNOP	117-84-0	0.1	ND	ND	ND	ND
DMEP	117-82-8	0.1	ND	ND	ND	ND
DIHP-A	71888-89-6	0.1	ND	ND	ND	ND
DHNUP	68515-42-4	0.1	ND	ND	ND	ND
DPP	84777-06-0	0.1	ND	ND	ND	ND
DIPP	605-50-5	0.1	ND	ND	ND	ND
DNPP	131-18-0	0.1	ND	ND	ND	ND
DIHP-B	68515-50-4	0.1	ND	ND	ND	ND
DnHP	84-75-3	0.1	ND	ND	ND	ND
PIPP	776297-69-9	0.1	ND	ND	ND	ND
DCHP	84-61-7	0.1	ND	ND	ND	ND
DMP	131-11-3	0.1	ND	ND	ND	ND
DEP	84-66-2	0.1	ND	ND	ND	ND
DUP	3648-20-2	0.1	ND	ND	ND	ND
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	68515-51-5, 68648-93-1	0.1	ND	ND	ND	ND
Conclusion		-	PASS	PASS	PASS	PASS

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Test Parameter:	CAS NO	Client's Limit (%):	Result (%)			
			018	024	025	028
DEHP	117-81-7	0.1	ND	ND	ND	ND
DBP	84-74-2	0.1	ND	ND	ND	ND
BBP	85-68-7	0.1	ND	ND	ND	ND
DIBP	84-69-5	0.1	ND	ND	ND	ND
DINP	28553-12-0, 68515-48-0	0.1	ND	ND	ND	ND
DIDP	26761-40-0, 68515-49-1	0.1	ND	ND	ND	ND
DNOP	117-84-0	0.1	ND	ND	ND	ND
DMEP	117-82-8	0.1	ND	ND	ND	ND
DIHP-A	71888-89-6	0.1	ND	ND	ND	ND
DHNUP	68515-42-4	0.1	ND	ND	ND	ND
DPP	84777-06-0	0.1	ND	ND	ND	ND
DIPP	605-50-5	0.1	ND	ND	ND	ND
DNPP	131-18-0	0.1	ND	ND	ND	ND
DIHP-B	68515-50-4	0.1	ND	ND	ND	ND
DnHP	84-75-3	0.1	ND	ND	ND	ND
PIPP	776297-69-9	0.1	ND	ND	ND	ND
DCHP	84-61-7	0.1	ND	ND	ND	ND
DMP	131-11-3	0.1	ND	ND	ND	ND
DEP	84-66-2	0.1	ND	ND	ND	ND
DUP	3648-20-2	0.1	ND	ND	ND	ND
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	68515-51-5, 68648-93-1	0.1	ND	ND	ND	ND
Conclusion		-	PASS	PASS	PASS	PASS

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Test Parameter:	CAS NO	Client's Limit (%):	Result (%)			
			072	073	074	081
DEHP	117-81-7	0.1	ND	ND	ND	ND
DBP	84-74-2	0.1	ND	ND	ND	ND
BBP	85-68-7	0.1	ND	ND	ND	ND
DIBP	84-69-5	0.1	ND	ND	ND	ND
DINP	28553-12-0, 68515-48-0	0.1	ND	ND	ND	ND
DIDP	26761-40-0, 68515-49-1	0.1	ND	ND	ND	ND
DNOP	117-84-0	0.1	ND	ND	ND	ND
DMEP	117-82-8	0.1	ND	ND	ND	ND
DIHP-A	71888-89-6	0.1	ND	ND	ND	ND
DHNUP	68515-42-4	0.1	ND	ND	ND	ND
DPP	84777-06-0	0.1	ND	ND	ND	ND
DIPP	605-50-5	0.1	ND	ND	ND	ND
DNPP	131-18-0	0.1	ND	ND	ND	ND
DIHP-B	68515-50-4	0.1	ND	ND	ND	ND
DnHP	84-75-3	0.1	ND	ND	ND	ND
PIPP	776297-69-9	0.1	ND	ND	ND	ND
DCHP	84-61-7	0.1	ND	ND	ND	ND
DMP	131-11-3	0.1	ND	ND	ND	ND
DEP	84-66-2	0.1	ND	ND	ND	ND
DUP	3648-20-2	0.1	ND	ND	ND	ND
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	68515-51-5, 68648-93-1	0.1	ND	ND	ND	ND
Conclusion		-	PASS	PASS	PASS	PASS

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Test Parameter:	CAS NO	Client's Limit (%):	Result (%)			
			089	103	104	105
DEHP	117-81-7	0.1	ND	ND	ND	ND
DBP	84-74-2	0.1	ND	ND	ND	ND
BBP	85-68-7	0.1	ND	ND	ND	ND
DIBP	84-69-5	0.1	ND	ND	ND	ND
DINP	28553-12-0, 68515-48-0	0.1	ND	ND	ND	ND
DIDP	26761-40-0, 68515-49-1	0.1	ND	ND	ND	ND
DNOP	117-84-0	0.1	ND	ND	ND	ND
DMEP	117-82-8	0.1	ND	ND	ND	ND
DIHP-A	71888-89-6	0.1	ND	ND	ND	ND
DHNUP	68515-42-4	0.1	ND	ND	ND	ND
DPP	84777-06-0	0.1	ND	ND	ND	ND
DIPP	605-50-5	0.1	ND	ND	ND	ND
DNPP	131-18-0	0.1	ND	ND	ND	ND
DIHP-B	68515-50-4	0.1	ND	ND	ND	ND
DnHP	84-75-3	0.1	ND	ND	ND	ND
PIPP	776297-69-9	0.1	ND	ND	ND	ND
DCHP	84-61-7	0.1	ND	ND	ND	ND
DMP	131-11-3	0.1	ND	ND	ND	ND
DEP	84-66-2	0.1	ND	ND	ND	ND
DUP	3648-20-2	0.1	ND	ND	ND	ND
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	68515-51-5, 68648-93-1	0.1	ND	ND	ND	ND
Conclusion		-	PASS	PASS	PASS	PASS

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Test Parameter:	CAS NO	Client's Limit (%):	Result (%)			
			106	107	108	109
DEHP	117-81-7	0.1	ND	ND	ND	ND
DBP	84-74-2	0.1	ND	ND	ND	ND
BBP	85-68-7	0.1	ND	ND	ND	ND
DIBP	84-69-5	0.1	ND	ND	ND	ND
DINP	28553-12-0, 68515-48-0	0.1	ND	ND	ND	ND
DIDP	26761-40-0, 68515-49-1	0.1	ND	ND	ND	ND
DNOP	117-84-0	0.1	ND	ND	ND	ND
DMEP	117-82-8	0.1	ND	ND	ND	ND
DIHP-A	71888-89-6	0.1	ND	ND	ND	ND
DHNUP	68515-42-4	0.1	ND	ND	ND	ND
DPP	84777-06-0	0.1	ND	ND	ND	ND
DIPP	605-50-5	0.1	ND	ND	ND	ND
DNPP	131-18-0	0.1	ND	ND	ND	ND
DIHP-B	68515-50-4	0.1	ND	ND	ND	ND
DnHP	84-75-3	0.1	ND	ND	ND	ND
PIPP	776297-69-9	0.1	ND	ND	ND	ND
DCHP	84-61-7	0.1	ND	ND	ND	ND
DMP	131-11-3	0.1	ND	ND	ND	ND
DEP	84-66-2	0.1	ND	ND	ND	ND
DUP	3648-20-2	0.1	ND	ND	ND	ND
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	68515-51-5, 68648-93-1	0.1	ND	ND	ND	ND
Conclusion		-	PASS	PASS	PASS	PASS

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Test Parameter:	CAS NO	Client's Limit (%):	Result (%)			
			135	152	183	184
DEHP	117-81-7	0.1	ND	ND	ND	ND
DBP	84-74-2	0.1	ND	ND	0.03	ND
BBP	85-68-7	0.1	ND	ND	ND	ND
DIBP	84-69-5	0.1	ND	ND	ND	ND
DINP	28553-12-0, 68515-48-0	0.1	ND	ND	ND	ND
DIDP	26761-40-0, 68515-49-1	0.1	ND	ND	ND	ND
DNOP	117-84-0	0.1	ND	ND	ND	ND
DMEP	117-82-8	0.1	ND	ND	ND	ND
DIHP-A	71888-89-6	0.1	ND	ND	ND	ND
DHNUP	68515-42-4	0.1	ND	ND	ND	ND
DPP	84777-06-0	0.1	ND	ND	ND	ND
DIPP	605-50-5	0.1	ND	ND	ND	ND
DNPP	131-18-0	0.1	ND	ND	ND	ND
DIHP-B	68515-50-4	0.1	ND	ND	ND	ND
DnHP	84-75-3	0.1	ND	ND	ND	ND
PIPP	776297-69-9	0.1	ND	ND	ND	ND
DCHP	84-61-7	0.1	ND	ND	ND	ND
DMP	131-11-3	0.1	ND	ND	ND	ND
DEP	84-66-2	0.1	ND	ND	ND	ND
DUP	3648-20-2	0.1	ND	ND	ND	ND
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	68515-51-5, 68648-93-1	0.1	ND	ND	ND	ND
Conclusion		-	PASS	PASS	PASS	PASS

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Test Parameter:	CAS NO	Client's Limit (%):	Result (%)			
			214			
DEHP	117-81-7	0.1	ND	-	-	-
DBP	84-74-2	0.1	ND	-	-	-
BBP	85-68-7	0.1	ND	-	-	-
DIBP	84-69-5	0.1	ND	-	-	-
DINP	28553-12-0, 68515-48-0	0.1	ND	-	-	-
DIDP	26761-40-0, 68515-49-1	0.1	ND	-	-	-
DNOP	117-84-0	0.1	ND	-	-	-
DMEP	117-82-8	0.1	ND	-	-	-
DIHP-A	71888-89-6	0.1	ND	-	-	-
DHNUF	68515-42-4	0.1	ND	-	-	-
DPP	84777-06-0	0.1	ND	-	-	-
DIPP	605-50-5	0.1	ND	-	-	-
DNPP	131-18-0	0.1	ND	-	-	-
DIHP-B	68515-50-4	0.1	ND	-	-	-
DnHP	84-75-3	0.1	ND	-	-	-
PIPP	776297-69-9	0.1	ND	-	-	-
DCHP	84-61-7	0.1	ND	-	-	-
DMP	131-11-3	0.1	ND	-	-	-
DEP	84-66-2	0.1	ND	-	-	-
DUP	3648-20-2	0.1	ND	-	-	-
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	68515-51-5, 68648-93-1	0.1	ND	-	-	-
Conclusion		-	PASS	-	-	-

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Note / key:

DEHP = Di-2-ethylhexyl phthalate
DIBP = Diisobutyl phthalate

DNOP = Di-n-octyl phthalate

DHNUP = 1,2-benzenedicarboxylic acid, di-C7-11 branched alkyl ester and linear alkyl ester

DNPP = Dipentyl phthalate

PIPP= n-pentyl iso-pentyl phthalate

ND = Not detected
mg/kg = milligram(s) per kilogram
Detection Limit (%) : each 0.005

DBP = Dibutyl phthalate
DINP = Di-iso-nonyl phthalate

DMEP = Di-methoxy-ethyl phthalate

DPP = 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear

DIHP-B = 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear

DCHP = Dicyclohexyl phthalate

% = percent

BBP = Butyl benzyl phthalate
DIDP = Di-iso-decyl phthalate
DIHP-A= 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl ester, C7-rich

DIPP = di-iso-pentyl phthalate

DnHP= di-n-hexyl phthalate

10000 mg/kg = 1 %



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2.4 POPS-SCCP

Short Chain Chlorinated Paraffins (SCCPs) Content - content of the client's request

Test Methods:

Sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer.

Test Item(s)	Result	Limit	Unit	Conclusion
	SCCPs			
003	ND	1000	mg/kg	PASS
007	ND	1000	mg/kg	PASS
008	ND	1000	mg/kg	PASS
009	ND	1000	mg/kg	PASS
010	ND	1000	mg/kg	PASS
015^	ND	1000	mg/kg	PASS
016	ND	1000	mg/kg	PASS
018	ND	1000	mg/kg	PASS
024	ND	1000	mg/kg	PASS
025	ND	1000	mg/kg	PASS
072	ND	1000	mg/kg	PASS
073	ND	1000	mg/kg	PASS
074	ND	1000	mg/kg	PASS
081	ND	1000	mg/kg	PASS
089	ND	1000	mg/kg	PASS
103	ND	1000	mg/kg	PASS
104	ND	1000	mg/kg	PASS
105	ND	1000	mg/kg	PASS

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Test Item(s)	Result	Limit	Unit	Conclusion
	SCCPs			
106	ND	1000	mg/kg	PASS
107	ND	1000	mg/kg	PASS
108	ND	1000	mg/kg	PASS
109	ND	1000	mg/kg	PASS
135	ND	1000	mg/kg	PASS
152	ND	1000	mg/kg	PASS
183	ND	1000	mg/kg	PASS
184	ND	1000	mg/kg	PASS
214	ND	1000	mg/kg	PASS

Note / Key :

ND = Not detected

“>” = Greater than

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

10 000 mg/kg = 1 %

% = percent

Detection Limit (mg/kg) : 30



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2.5 POPS-PFOA/PFOS

Perfluorooctane Sulfonic (PFOS)- Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs)

Test Methods:

Sample was extracted with organic solvent and then analyzed by Liquid Chromatograph Mass Spectrometer.

Limit :	1000mg/kg		
Test Item(s)	Result	unit	Conclusion
	Perfluorooctane Sulphonates (PFOS)		
065	ND	mg/kg	PASS
078	ND	mg/kg	PASS
101	ND	mg/kg	PASS
133	ND	mg/kg	PASS
181	ND	mg/kg	PASS
219	ND	mg/kg	PASS

Note / key:

ND = Not detected

% = percent

10000 mg/kg = 1 %

mg/kg = milligram(s) per kilogram

Detection Limit(mg/ kg): 0.025



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Perfluorooctane Sulfonic (PFOS) acid and its derivatives

Number	Chemical Name	CAS Number
1.	Perfluorooctane Sulfonates(PFOS)	1763-23-1
2.	Perfluorooctane Sulfonic acid, potassium salt(PFOS-K)	2795-39-3
3.	Perfluorooctane Sulfonic acid, lithium salt(PFOS-Li)	29457-72-5
4.	Perfluorooctane Sulfonic acid, ammonium salt(PFOS-NH ₄)	29081-56-9
5.	Perfluorooctane Sulfonate diethanolamine salt(PFOS-NH(OH) ₂)	70225-14-8
6.	Perfluorooctane Sulfonic acid tetraethylammonium salt(PFOS-N(C ₂ H ₅) ₄)	56773-42-3
7.	Didecyl dimethyl ammonium perfluorooctane Sulfonate(PFOS-DDA)	251099-16-8
8.	Perfluoro-1-octanesulfonyl fluoride(PFOSF)	307-35-7
9.	N-Ethylperfluoro-1-octanesulfonamide(N-Et-FOSA)	4151-50-2
10.	N-Methylperfluoro-1-octanesulfonamide(N-Me-FOSA)	31506-32-8
11.	2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE)	1691-99-2
12.	2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE)	24448-09-7

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Perfluorooctanoic Acid (PFOA)- Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs) with its Amendment Directive EU NO. 2020/ 784

Test Methods:

Sample was extracted with organic solvent and then analyzed by Liquid Chromatograph Mass Spectrometer.

Limit :	0.025mg/kg
---------	------------

Test Item(s)	Result	unit	Conclusion
	Perfluorooctanoic Acid (PFOA)		
065	ND	mg/kg	PASS
078	ND	mg/kg	PASS
101	ND	mg/kg	PASS
133	ND	mg/kg	PASS
181	ND	mg/kg	PASS
219	ND	mg/kg	PASS

Note / key:

ND = Not detected

% = percent

10000 mg/kg = 1 %

mg/kg = milligram(s) per kilogram

Detection Limit(mg/ kg): 0.025



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Perfluorooctanoic Acid (PFOA) acid an its salts

Number	Chemical Name	CAS Number
1.	Perfluorooctanoic Acid (PFOA)	335-67-1
2.	Ammonium pentadecafluorooctanoate(APFO)	3825-26-1
3.	Sodium pentadecafluorooctanoate(PFOA-Na)	335-95-5
4.	Potassium pentadecafluorooctanoate(PFOA-K)	2395-00-8
5.	Silver pentadecafluorooctanoate(PFOA-Ag)	335-93-3
6.	Perfluorooctanoyl fluoride(PFOA-F)	335-66-0

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2.6 PAHS

Polycyclic Aromatic Hydrocarbons (PAHs) Content – German Product Safety Commission GS Specification AfPS GS 2019:01 PAK

Test Methods: Sample was extracted with organic solvent and then analyzed by GC-MS With reference to test method mentioned in German AfPS GS 2019:01 PAK

Type (See Comment for the List of Types)	I	IIa	IIb	IIIa	IIIb
Test Parameter(s)	Limit ^[a] (mg/kg)				
Each of Benzo (a) pyrene, Benzo (e) pyrene, Benzo (a) anthracene, Benzo (b) fluoranthene, Benzo (j) fluoranthene, Benzo (k) fluoranthene, Chrysene, Dibenzo (a,h) anthracene, Benzo (g,h,i) perylene and Indeno (1,2,3-cd) pyrene,	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Sum of Phenanthrene, Pyrene, Anthracene and Fluoranthene (Sum of No.11 to No.14 of listed PAHs)	< 1	< 5	< 10	< 20	< 50
Naphthalene	< 1	< 2	< 2	< 10	< 10
Sum of all listed PAHs	< 1	< 5	< 10	< 20	< 50

-	CAS-No.	Unit	Result			
Test Item(s)	-	-	001	003	015^	016
Type	-	-	IIIb	IIIb	IIIb	IIIb
Parameter	-	-	-	-	-	-
Benzo (a) pyrene	50-32-8	mg/kg	ND	ND	ND	ND
Benzo (e) pyrene	192-97-2	mg/kg	ND	ND	ND	ND
Benzo (a) anthracene	56-55-3	mg/kg	ND	ND	ND	ND
Benzo (b) fluoranthene	205-99-2	mg/kg	ND	ND	ND	ND
Benzo (j) fluoranthene	205-82-3	mg/kg	ND	ND	ND	ND
Benzo (k) fluoranthene	207-08-9	mg/kg	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	ND	ND	ND	ND
Dibenzo (a,h) anthracene	53-70-3	mg/kg	ND	ND	ND	ND
Benzo (g,h,i) perylene	191-24-2	mg/kg	ND	ND	ND	ND
Indeno (1,2,3-cd) pyrene	193-39-5	mg/kg	ND	ND	ND	ND
Phenanthrene	85-01-8	mg/kg	ND	ND	ND	ND
Pyrene	129-00-0	mg/kg	ND	ND	ND	ND
Anthracene	120-12-7	mg/kg	ND	ND	ND	ND
Fluoranthene	206-44-0	mg/kg	ND	ND	ND	ND
Naphthalene	91-20-3	mg/kg	ND	ND	1.58	0.40
Sum of all listed PAHS	-	mg/kg	ND	ND	1.58	0.40
Conclusion	-	-	PASS	PASS	PASS	PASS

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-	CAS-No.	Unit	Result			
			018	024	025	028
Test Item(s)	-	-	018	024	025	028
Type	-	-	IIb	IIIb	IIIb	IIIb
Parameter	-	-	-	-	-	-
Benzo (a) pyrene	50-32-8	mg/kg	ND	ND	ND	ND
Benzo (e) pyrene	192-97-2	mg/kg	ND	ND	ND	ND
Benzo (a) anthracene	56-55-3	mg/kg	ND	ND	ND	ND
Benzo (b) fluoranthene	205-99-2	mg/kg	ND	ND	ND	ND
Benzo (j) fluoranthene	205-82-3	mg/kg	ND	ND	ND	ND
Benzo (k) fluoranthene	207-08-9	mg/kg	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	ND	ND	ND	ND
Dibenzo (a,h) anthracene	53-70-3	mg/kg	ND	ND	ND	ND
Benzo (g,h,i) perylene	191-24-2	mg/kg	ND	ND	ND	ND
Indeno (1,2,3-cd) pyrene	193-39-5	mg/kg	ND	ND	ND	ND
Phenanthrene	85-01-8	mg/kg	ND	ND	ND	ND
Pyrene	129-00-0	mg/kg	ND	ND	ND	ND
Anthracene	120-12-7	mg/kg	ND	ND	ND	ND
Fluoranthene	206-44-0	mg/kg	ND	ND	ND	ND
Naphthalene	91-20-3	mg/kg	0.50	3.64	0.44	ND
Sum of all listed PAHS	-	mg/kg	0.50	3.64	0.44	ND
Conclusion	-	-	PASS	PASS	PASS	PASS

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-	CAS-No.	Unit	Result			
Test Item(s)	-	-	089	214	-	-
Type	-	-	IIIb	IIIb	-	-
Parameter	-	-	-	-	-	-
Benzo (a) pyrene	50-32-8	mg/kg	ND	ND	-	-
Benzo (e) pyrene	192-97-2	mg/kg	ND	ND	-	-
Benzo (a) anthracene	56-55-3	mg/kg	ND	ND	-	-
Benzo (b) fluoranthene	205-99-2	mg/kg	ND	ND	-	-
Benzo (j) fluoranthene	205-82-3	mg/kg	ND	ND	-	-
Benzo (k) fluoranthene	207-08-9	mg/kg	ND	ND	-	-
Chrysene	218-01-9	mg/kg	ND	ND	-	-
Dibenzo (a,h) anthracene	53-70-3	mg/kg	ND	ND	-	-
Benzo (g,h,i) perylene	191-24-2	mg/kg	ND	ND	-	-
Indeno (1,2,3-cd) pyrene	193-39-5	mg/kg	ND	ND	-	-
Phenanthrene	85-01-8	mg/kg	ND	ND	-	-
Pyrene	129-00-0	mg/kg	ND	ND	-	-
Anthracene	120-12-7	mg/kg	ND	ND	-	-
Fluoranthene	206-44-0	mg/kg	ND	ND	-	-
Naphthalene	91-20-3	mg/kg	ND	0.30	-	-
Sum of all listed PAHS	-	mg/kg	ND	0.30	-	-
Conclusion	-	-	PASS	PASS	-	-

Note / key:

ND = Not detected “>” = More than Conc. = Concentration

mg/kg = milligram(s) per kilogram “<” = Less than

Detection Limit (mg/kg): Each PAHs: 0.2; Sum of all PAHs: 0.2

Remark:

- Plasticized and rubberized prints, coatings and plastic materials of product are applicable to be tested.
- [a] Denotes as this (these) limit(s) applies to product(s) with GS-Mark dated on or after July 01, 2015.



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2.7 Total Lead (Pb)

Total Lead content of the client's request with reference to California Proposition 65

Test Methods:

Acid digestion followed by Atomic Absorption Spectrophotometry or Inductively Coupled Plasma Spectrometry.

Test Item(s)	Result	Limit	Unit	Conclusion
	Total Lead (Pb)	Cleint's request		
001	ND	-	mg/kg	DATA
002	ND	-	mg/kg	DATA
003	ND	-	mg/kg	DATA
005	28	-	mg/kg	DATA
015^	ND	-	mg/kg	DATA
016	ND	-	mg/kg	DATA
017	ND	-	mg/kg	DATA
018	ND	-	mg/kg	DATA
023	259	-	mg/kg	DATA
024	ND	-	mg/kg	DATA
025	ND	-	mg/kg	DATA
028	ND	-	mg/kg	DATA
029	ND	-	mg/kg	DATA
030	17	-	mg/kg	DATA
034	ND	-	mg/kg	DATA
035	ND	-	mg/kg	DATA
085	ND	-	mg/kg	DATA
086	ND	-	mg/kg	DATA
089	ND	-	mg/kg	DATA
194	14	-	mg/kg	DATA
199	13	-	mg/kg	DATA
207	ND	-	mg/kg	DATA
211^	ND	-	mg/kg	DATA

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Test Item(s)	Result	Limit	Unit	Conclusion
	Total Lead (Pb)	Cleint's request		
214	ND	-	mg/kg	DATA

Note / key:

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg) : 10



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Total cadmium content of the client's request with reference to California Proposition 65

Test Methods:

U.S. CPSC-CH-E1002-08.3 and U.S. CPSC-CH-E1001-08.3

Test Item(s)	Result	Limit	Unit	Conclusion
	Total cadmium(Cd)			
001	ND	100	mg/kg	PASS
002	ND	100	mg/kg	PASS
003	ND	100	mg/kg	PASS
005	ND	100	mg/kg	PASS
015^	ND	100	mg/kg	PASS
016	ND	100	mg/kg	PASS
017	ND	100	mg/kg	PASS
018	ND	100	mg/kg	PASS
023	ND	100	mg/kg	PASS
024	ND	100	mg/kg	PASS
025	ND	100	mg/kg	PASS
028	ND	100	mg/kg	PASS
029	ND	100	mg/kg	PASS
030	ND	100	mg/kg	PASS
034	ND	100	mg/kg	PASS
035	ND	100	mg/kg	PASS
085	ND	100	mg/kg	PASS
086	ND	100	mg/kg	PASS
089	ND	100	mg/kg	PASS
194	ND	100	mg/kg	PASS
199	ND	100	mg/kg	PASS
207	ND	100	mg/kg	PASS
211^	ND	100	mg/kg	PASS

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Test Item(s)	Result	Limit	Unit	Conclusion
	Total cadmium(Cd)			
214	ND	100	mg/kg	PASS

Note / key:

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg) : 10

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Phthalates content of the client's request with reference to California Proposition 65

Test Methods:

U.S. CPSC-CH-C1001-09.4

Test Parameter:	BBP	DBP	DEHP	DIDP	DINP	DNOP	DnHP	-
Limit (%):	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)							Conclusion
001	ND	ND	ND	ND	ND	ND	ND	PASS
003	ND	ND	ND	ND	ND	ND	ND	PASS
015^	ND	ND	ND	ND	ND	ND	ND	PASS
016	ND	ND	ND	ND	ND	ND	ND	PASS
017	ND	ND	ND	ND	ND	ND	ND	PASS
018	ND	ND	ND	ND	ND	ND	ND	PASS
024	ND	ND	ND	ND	ND	ND	ND	PASS
025	ND	ND	ND	ND	ND	ND	ND	PASS
028	ND	ND	ND	ND	ND	ND	ND	PASS
089	ND	ND	ND	ND	ND	ND	ND	PASS
214	ND	ND	ND	ND	ND	ND	ND	PASS

Note / key:

BBP = Butyl benzyl phthalate

DNOP = Di-n-octyl phthalate

DnHP = di-n-pentyl phthalate

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (%) : each 0.005

DBP = Dibutyl phthalate

DINP = Di-iso-nonyl phthalate

% = percent

DEHP = Di-2-ethylhexyl phthalate

DIDP = Di-iso-decyl phthalate

10000 mg/kg = 1 %



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2.8 REACH Annex XVII-Organotin

Organotin Compounds Content - Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Annex XVII, Entry 20, Points 4 to 6

Test Methods: ISO/TS 16179:2012

Maximum Allowable Limit : (See Comment for the List of Sample Types)	Type I	Sum of tri-substituted organostannic compounds (Sum of tri-substituted orgt.) : 0.1 % by weight of tin
	Type II	DBT : 0.1 % by weight of tin
	Type III	DOT : 0.1 % by weight of tin

Test Item(s)	Type	Result			Conclusion
		Detected Analyte(s)	Conc.	Unit	
001	I & II & III	ND	ND	%	PASS
003	I & II & III	ND	ND	%	PASS
015^	I & II & III	ND	ND	%	PASS
016	I & II & III	ND	ND	%	PASS
018	I & II & III	ND	ND	%	PASS
024	I & II & III	ND	ND	%	PASS
025	I & II & III	ND	ND	%	PASS
028	I & II & III	ND	ND	%	PASS
089	I & II & III	ND	ND	%	PASS
214	I & II & III	ND	ND	%	PASS

Note / Key :

ND = Not detected

“>” = Greater than

Conc. = Concentration

% = percent by weight of tin

Refer Limit (%) : 50

Remark :

- The list of organotin compounds is summarized in table of Appendix.

Comment :



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List of Sample Types :	
Type	Description
I	Articles, or part thereof, placed on the market after July 1, 2010
II	Mixtures or articles, or part thereof, placed on the market after January 1, 2012, except materials and articles regulated under Regulation (EC) No. 1935/2004; and the following mixtures or articles, or part thereof, placed on the market after January 1, 2015, - one-component and two-component room temperature vulcanisation sealants (RTV-1 and RTV-2 sealants) and adhesives, - paints and coatings containing DBT compounds as catalysts when applied on articles, - soft polyvinyl chloride (PVC) profiles whether by themselves or coextruded with hard PVC, - fabrics coated with PVC containing DBT compounds as stabilisers when intended for outdoor application, - outdoor rainwater pipes, gutters and fittings, as well as covering material for roofing and facades.
III	Articles, or part thereof, placed on the market after January 1, 2012, including - textile articles intended to come into contact with the skin, - gloves, - footwear or part of footwear intended to come into contact with the skin, - wall and floor coverings, - childcare articles, - female hygiene products, - nappies, - two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits)

APPENDIX

List of Organotin Compounds [Regulation (EC) No. 1907/2006 Annex XVII, Entry 20, Points 4 to 6] :			
No.	Name of Analytes	No.	Name of Analytes
1	Tri-substituted organostannic compounds (Tri-substituted orgt.), including - Tripropyltin (TPT) - Tributyltin (TBT) - Trioctyltin (TOT) - Triphenyltin (TPhT) - Tricyclohexyltin (TcyT)	3	Diocetyl tin (DOT)
2	Dibutyltin (DBT)	-	-

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2.9 POPS-HBCDD

Hexabromocyclododecane (HBCDD) Content - European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs) (recast) Annex I, Part A with its Amendment Directive EU NO. 2020/ 784

Test Methods:

Sample was extracted with organic solvent and then analyzed by Liquid Chromatograph Mass Spectrometer.

Client limit:	100mg/kg
---------------	----------

Test Item(s)	Result	unit	Conclusion
	Hexabromocyclododecane(HBCDD)		
003	ND	mg/kg	PASS
018	ND	mg/kg	PASS
065	ND	mg/kg	PASS
101	ND	mg/kg	PASS
133	ND	mg/kg	PASS
181	ND	mg/kg	PASS
219	ND	mg/kg	PASS

Note / key:

ND = Not detected

% = percent

10000 mg/kg = 1 %

mg/kg = milligram(s) per kilogram

Detection Limit(mg/ kg): 5



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2.10TSCA

Persistent, Bioaccumulative, and Toxic (PBT) Chemicals -- according to final rules issued by EPA as required under the Toxic Substances Control Act (TSCA) with its amendments.

Test Methods: Extraction with solvent, analysed by Gas Chromatography Mass Spectrometer/ Liquid Chromatography Mass Spectrometer.

Test Item(s)	CAS-No.	Limit	Unit	Result		
				003	007	008
Decabromodiphenyl ether (DecaBDE)	1163-19-5	ND	mg/kg	ND	ND	ND
Phenol, isopropylated phosphate (3:1) [PIP (3:1)]	68937-41-7	ND	mg/kg	ND	ND	ND
Hexachlorobutadiene (HCBd)	87-68-3	ND	mg/kg	ND	ND	ND
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	3000	mg/kg	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	10000	mg/kg	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS

Test Item(s)	CAS-No.	Limit	Unit	Result		
				009	010	015^
Decabromodiphenyl ether (DecaBDE)	1163-19-5	ND	mg/kg	ND	ND	ND
Phenol, isopropylated phosphate (3:1) [PIP (3:1)]	68937-41-7	ND	mg/kg	ND	ND	ND
Hexachlorobutadiene (HCBd)	87-68-3	ND	mg/kg	ND	ND	ND
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	3000	mg/kg	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	10000	mg/kg	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS

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Test Item(s)	CAS-No.	Limit	Unit	Result		
				016	018	024
Decabromodiphenyl ether (DecaBDE)	1163-19-5	ND	mg/kg	ND	ND	ND
Phenol, isopropylated phosphate (3:1) [PIP (3:1)]	68937-41-7	ND	mg/kg	ND	ND	ND
Hexachlorobutadiene (HCBd)	87-68-3	ND	mg/kg	ND	ND	ND
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	3000	mg/kg	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	10000	mg/kg	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS

Test Item(s)	CAS-No.	Limit	Unit	Result		
				025	065	072
Decabromodiphenyl ether (DecaBDE)	1163-19-5	ND	mg/kg	ND	ND	ND
Phenol, isopropylated phosphate (3:1) [PIP (3:1)]	68937-41-7	ND	mg/kg	ND	ND	ND
Hexachlorobutadiene (HCBd)	87-68-3	ND	mg/kg	ND	ND	ND
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	3000	mg/kg	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	10000	mg/kg	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS

Test Item(s)	CAS-No.	Limit	Unit	Result		
				073	074	078
Decabromodiphenyl ether (DecaBDE)	1163-19-5	ND	mg/kg	ND	ND	ND
Phenol, isopropylated phosphate (3:1) [PIP (3:1)]	68937-41-7	ND	mg/kg	ND	ND	ND
Hexachlorobutadiene (HCBd)	87-68-3	ND	mg/kg	ND	ND	ND
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	3000	mg/kg	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	10000	mg/kg	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS

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Test Item(s)	CAS-No.	Limit	Unit	Result		
				081	089	101
Decabromodiphenyl ether (DecaBDE)	1163-19-5	ND	mg/kg	ND	ND	ND
Phenol, isopropylated phosphate (3:1) [PIP (3:1)]	68937-41-7	ND	mg/kg	ND	ND	ND
Hexachlorobutadiene (HCBd)	87-68-3	ND	mg/kg	ND	ND	ND
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	3000	mg/kg	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	10000	mg/kg	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS

Test Item(s)	CAS-No.	Limit	Unit	Result		
				103	104	105
Decabromodiphenyl ether (DecaBDE)	1163-19-5	ND	mg/kg	ND	ND	ND
Phenol, isopropylated phosphate (3:1) [PIP (3:1)]	68937-41-7	ND	mg/kg	ND	ND	ND
Hexachlorobutadiene (HCBd)	87-68-3	ND	mg/kg	ND	ND	ND
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	3000	mg/kg	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	10000	mg/kg	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS

Test Item(s)	CAS-No.	Limit	Unit	Result		
				106	107	108
Decabromodiphenyl ether (DecaBDE)	1163-19-5	ND	mg/kg	ND	ND	ND
Phenol, isopropylated phosphate (3:1) [PIP (3:1)]	68937-41-7	ND	mg/kg	ND	ND	ND
Hexachlorobutadiene (HCBd)	87-68-3	ND	mg/kg	ND	ND	ND
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	3000	mg/kg	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	10000	mg/kg	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS

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Test Item(s)	CAS-No.	Limit	Unit	Result		
				109	125	133
Decabromodiphenyl ether (DecaBDE)	1163-19-5	ND	mg/kg	ND	ND	ND
Phenol, isopropylated phosphate (3:1) [PIP (3:1)]	68937-41-7	ND	mg/kg	ND	ND	ND
Hexachlorobutadiene (HCBD)	87-68-3	ND	mg/kg	ND	ND	ND
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	3000	mg/kg	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	10000	mg/kg	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS

Test Item(s)	CAS-No.	Limit	Unit	Result		
				135	152	181
Decabromodiphenyl ether (DecaBDE)	1163-19-5	ND	mg/kg	ND	ND	ND
Phenol, isopropylated phosphate (3:1) [PIP (3:1)]	68937-41-7	ND	mg/kg	ND	ND	ND
Hexachlorobutadiene (HCBD)	87-68-3	ND	mg/kg	ND	ND	ND
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	3000	mg/kg	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	10000	mg/kg	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS

Test Item(s)	CAS-No.	Limit	Unit	Result		
				183	184	214
Decabromodiphenyl ether (DecaBDE)	1163-19-5	ND	mg/kg	ND	ND	ND
Phenol, isopropylated phosphate (3:1) [PIP (3:1)]	68937-41-7	ND	mg/kg	ND	ND	ND
Hexachlorobutadiene (HCBD)	87-68-3	ND	mg/kg	ND	ND	ND
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	3000	mg/kg	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	10000	mg/kg	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS

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Test Item(s)	CAS-No.	Limit	Unit	Result		
				219	-	-
Decabromodiphenyl ether (DecaBDE)	1163-19-5	ND	mg/kg	ND	-	-
Phenol, isopropylated phosphate (3:1) [PIP (3:1)]	68937-41-7	ND	mg/kg	ND	-	-
Hexachlorobutadiene (HCBd)	87-68-3	ND	mg/kg	ND	-	-
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	3000	mg/kg	ND	-	-
Pentachlorothiophenol (PCTP)	133-49-3	10000	mg/kg	ND	-	-
Conclusion	-	-	-	PASS	-	-

Note / key:

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg) : 5



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2.11 MCCP

Medium chain chlorinated paraffin (MCCP) Content of the client's Specification

Test Methods:

Sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer.

Test Item(s)	Result	Unit	Limit	Conclusion
	MCCPs		Client's request	
003	ND	mg/kg	1000	PASS
007	ND	mg/kg	1000	PASS
008	ND	mg/kg	1000	PASS
009	ND	mg/kg	1000	PASS
010	ND	mg/kg	1000	PASS
015^	ND	mg/kg	1000	PASS
016	ND	mg/kg	1000	PASS
018	ND	mg/kg	1000	PASS
024	ND	mg/kg	1000	PASS
025	ND	mg/kg	1000	PASS
072	ND	mg/kg	1000	PASS
073	ND	mg/kg	1000	PASS
074	ND	mg/kg	1000	PASS
081	ND	mg/kg	1000	PASS
089	ND	mg/kg	1000	PASS
103	ND	mg/kg	1000	PASS
104	ND	mg/kg	1000	PASS
105	ND	mg/kg	1000	PASS
106	ND	mg/kg	1000	PASS
107	ND	mg/kg	1000	PASS
108	ND	mg/kg	1000	PASS
109	ND	mg/kg	1000	PASS

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Test Item(s)	Result	Unit	Limit	Conclusion
	MCCPs		Client's request	
135	ND	mg/kg	1000	PASS
152	ND	mg/kg	1000	PASS
183	ND	mg/kg	1000	PASS
184	ND	mg/kg	1000	PASS
214	ND	mg/kg	1000	PASS

Note / Key :

ND = Not detected

">" = Greater than

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

10 000 mg/kg = 1 %

% = percent

Detection Limit (mg/kg) : 30



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2.12 TBBP-A

Tetrabromobisphenol A (TBBPA) Content of the client's request

Test Methods:

Sample was extracted with organic solvent and then analyzed by Liquid Chromatograph Mass Spectrometer.

Test Item(s)	Result	Unit	Conclusion
	Tetrabromobisphenol A (TBBPA)		
003	ND	mg/kg	PASS
015^	ND	mg/kg	PASS
016	ND	mg/kg	PASS
018	ND	mg/kg	PASS
024	ND	mg/kg	PASS
025	ND	mg/kg	PASS
289	ND	mg/kg	PASS
214	ND	mg/kg	PASS

Note / key:

ND = Not detected

mg/kg = milligram(s) per kilogram

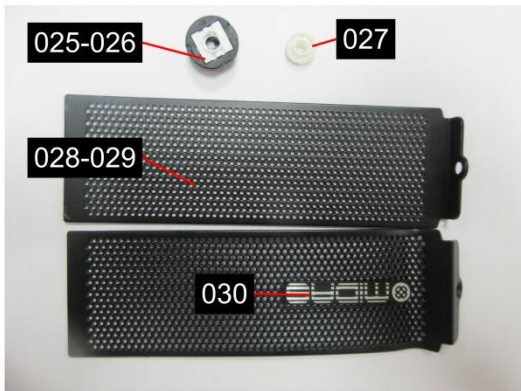
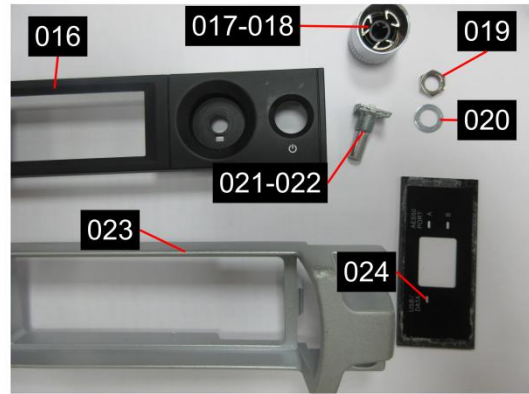
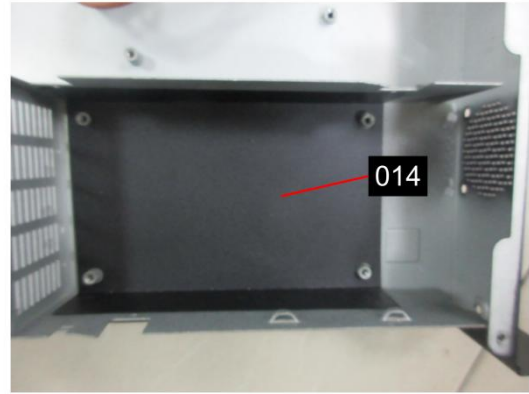
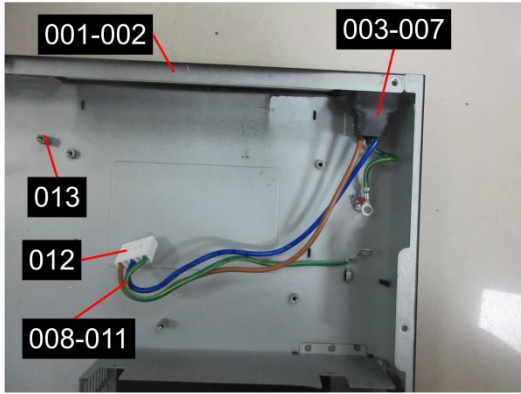
Detection Limit (mg/kg) : 5

Remark:

- At the request of client, test(s) was conducted on the certain component(s) of the submitted samples(s) / submitted component(s)

The item(s) 005 were provided by client dated on Mar 17, 2025.

“^” The above Test Item(s) 211 results were transferred from the test data of 023 in EST report ESTC-240422017 dated on Mar 11, 2025; The above Test Item(s) 015 results were transferred from the test data of 006 in EST report ESTC-240612019 dated on Sep 9, 2024.



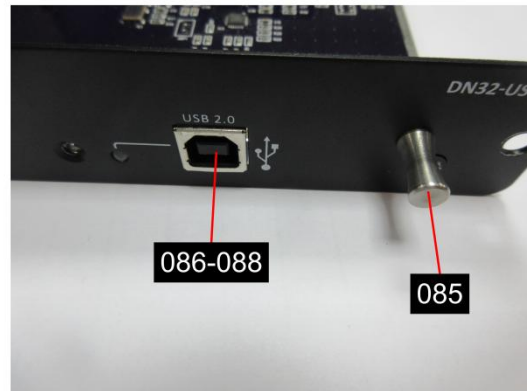
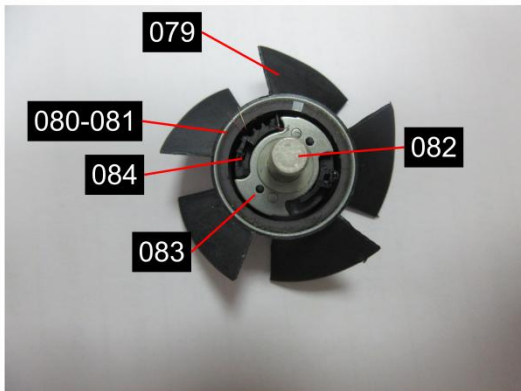
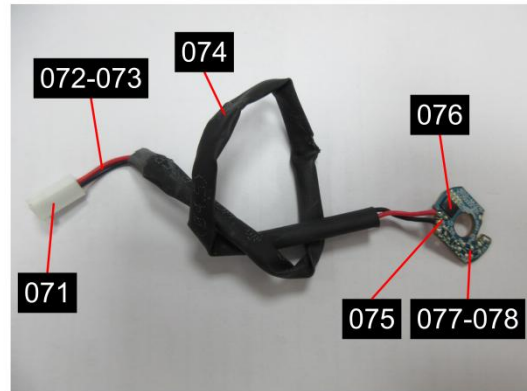
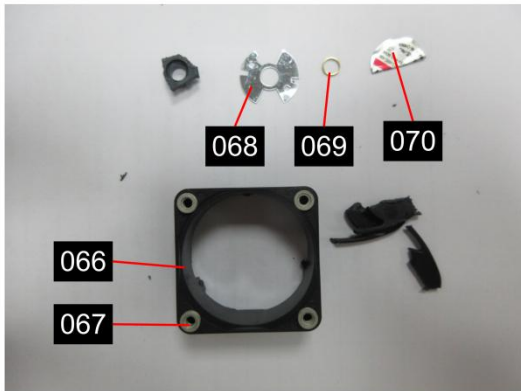
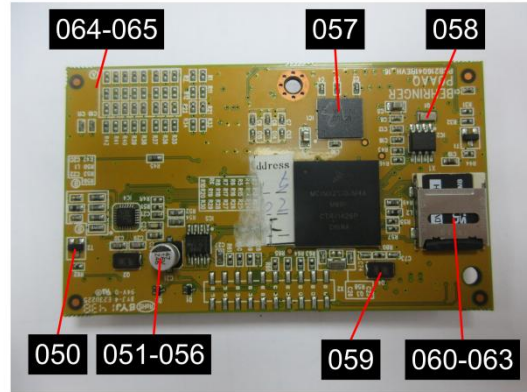
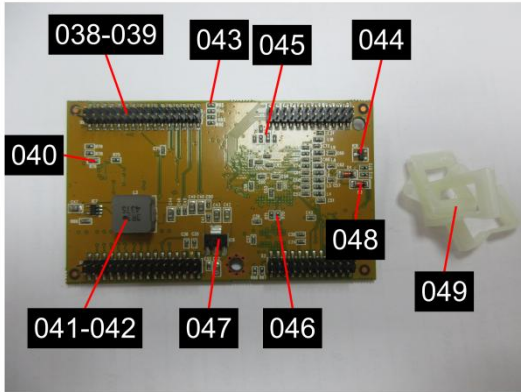


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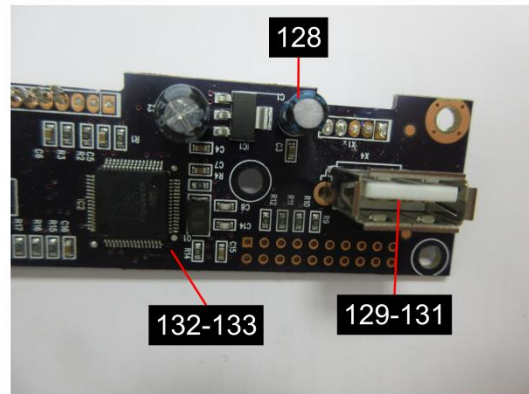
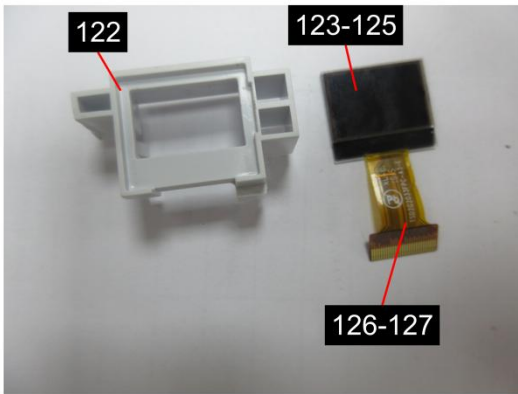
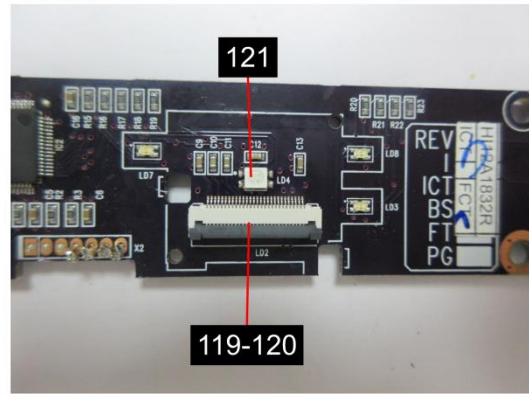
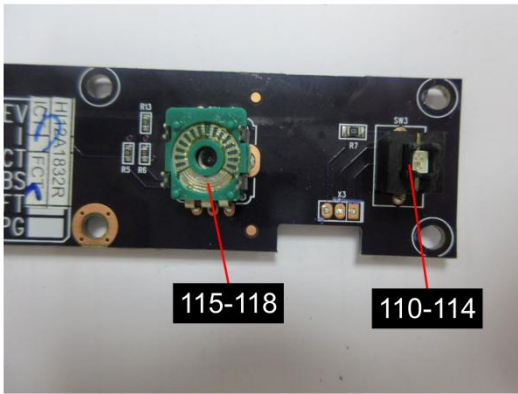
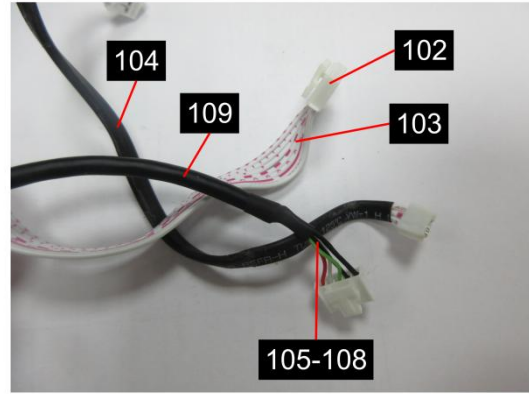
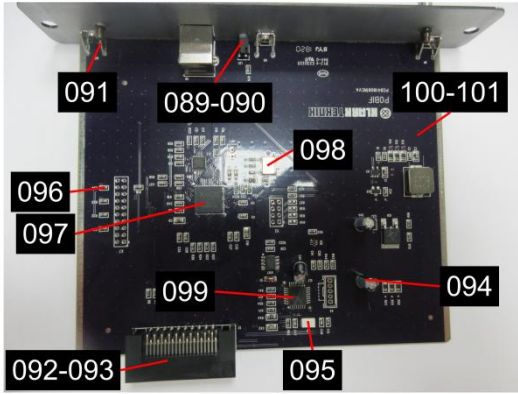
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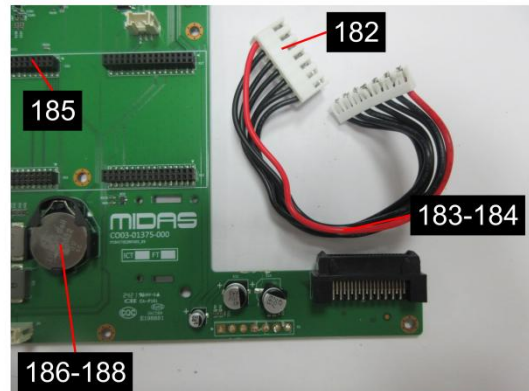
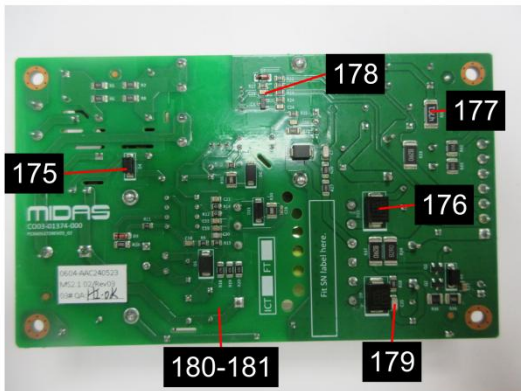
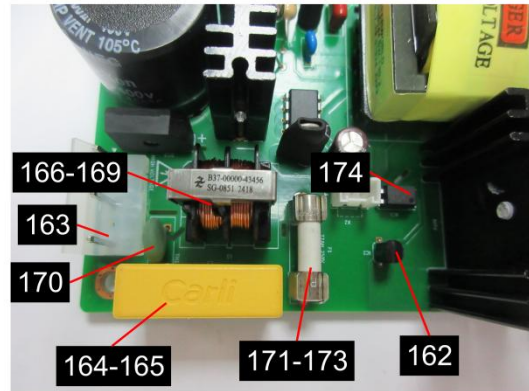
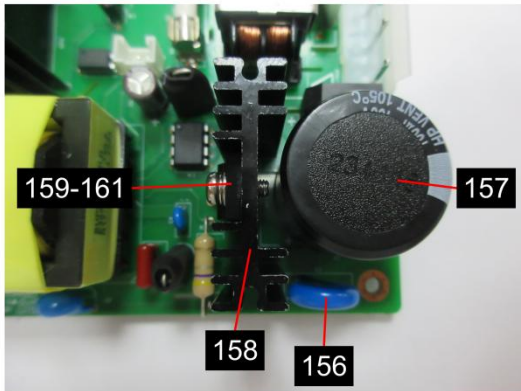
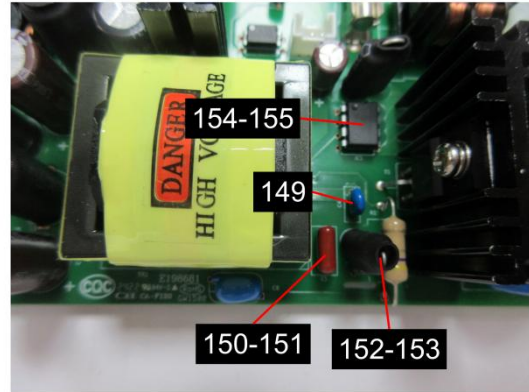
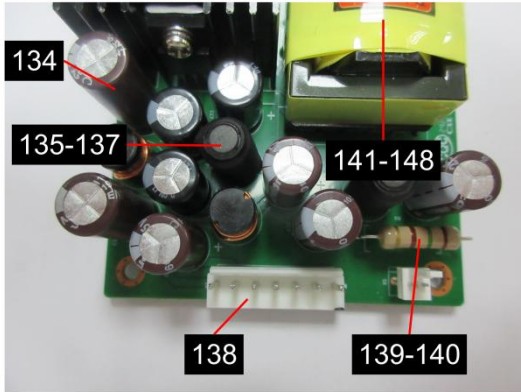
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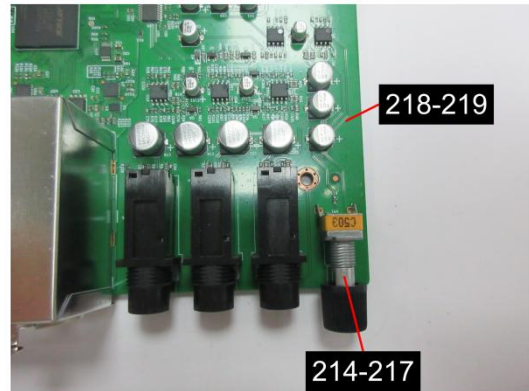
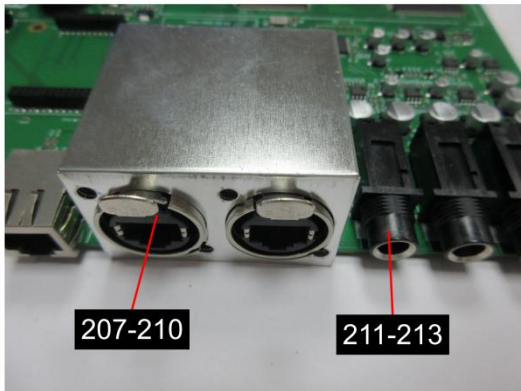
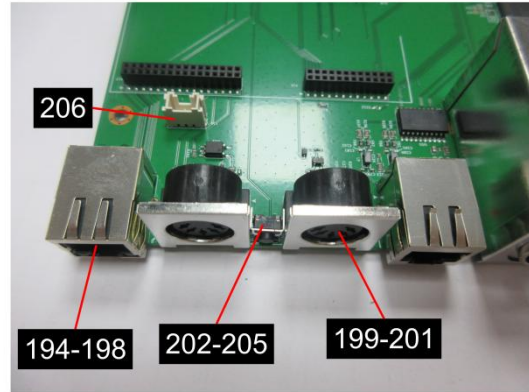
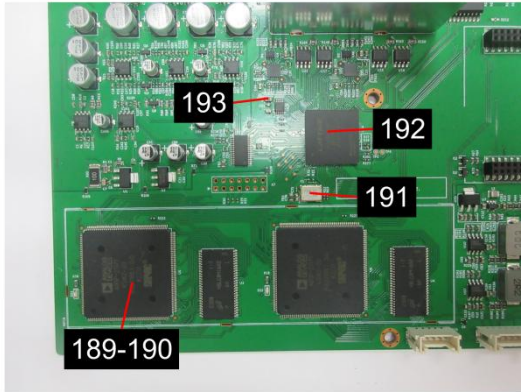
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3.Photo of the Submitted Sample



EST Technology authenticate the photo on original report only

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