



Test Report

Report No. ESTC-190327018
Date: 10 Jul 2019
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APPLICANT : **Dongguan Solid Plastics & Molding Co., Ltd.**
99 West of Xinfeng Road, Shijie Town, Dongguan City,
Guangdong Province, China.

DATE OF SUBMISSION : 27 Mar 2019

TEST PERIOD : 27 Mar 2019 to 10 Jul 2019

SAMPLE DESCRIPTION : I-MOP

Model No. : I-MOP LITE

P.O No. : /

Manufacturer : Dongguan Solid Plastics & Molding Co., Ltd.
99 West of Xinfeng Road, Shijie Town, Dongguan City,
Guangdong Province, China.

Supplier: Dongguan Solid Plastics & Molding Co., Ltd.
99 West of Xinfeng Road, Shijie Town, Dongguan City,
Guangdong Province, China.

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)	PASS	-
Phthalates Content – European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments up to EU No. 2015/ 863 Annex II	PASS	-

GUANGDONG 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) 83081888 Ext. 618 E-mail: gdest@gdest.cn

Business Contact: (86) 83081888

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1. Material List

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
001		Silvery metal	Subject, vacuum cleaner	-
002		Gray plastic	Holder, vacuum cleaner	-
003		Gray plastic	Fixed, vacuum cleaner	-
004		Black plastic	Ring, fixed, vacuum cleaner	-
005		Silvery metal	Ring, fixed, vacuum cleaner	-
006		Black coated silvery metal	Cireclip, fixed, vacuum cleaner	-
007		Coppery metal	Nut, fixed, vacuum cleaner	-
008		Silvery metal	Contact plate, fixed, vacuum cleaner	-
009		Black coated silvery metal	Shaft, fixed, vacuum cleaner	-
010		White plastic	Fixed, subject, vacuum cleaner	-
011		Silvery metal	Magnet, fixed, subject, vacuum cleaner	-
012		Black soft plastic	Gasket, subject, vacuum cleaner	-
013		White plastic	Connector, subject, vacuum cleaner	-
014		Silvery metal	Horn, subject, vacuum cleaner	-
015		Black plastic	Wire sleeve	-
016		Black plastic	Cable jacket	-
017		Black plastic	Wire jacket	-
018		Yellow plastic	Wire jacket	-
019		Blue plastic	Wire jacket	-
020		Green plastic	Wire jacket	-
021		Silvery metal	Wire	-






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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
022		White plastic	Wire pipe	-
023		Translucent plastic	Liquid pipe	-
024		Transparent plastic	Liquid pipe	-
025		Silvery metal	Screw, vacuum cleaner	-
026		Translucent plastic	Patch, screw, vacuum cleaner	-
027		Black plastic	Connector, vacuum cleaner	-
028		Black soft plastic	Cable jacket	-
029		Silvery metal	Fixed, vacuum cleaner	-
030		Black soft plastic	Small ring, fixed, vacuum cleaner	-
031		Black plastic	Big ring, fixed, vacuum cleaner	-
032			Silvery metal	Holder, Hydraulic pipe
033	Silvery metal		Turnbuckle, Hydraulic pipe	-
034	Coppery metal		Holder, Hydraulic pipe	-
035	Black printed yellow plastic		Label, Hydraulic pipe	-
036	Black plastic		Hydraulic pipe sleeve	-
037	Silvery metal		Contact plate, Hydraulic pipe	-
038	Silvery metal		Case, Hydraulic pipe	-
039	Silvery metal		Nut, Hydraulic pipe	-
040		Blue plastic	Foot holder, vacuum cleaner	-
041		Blue plastic	Wrap, subject, vacuum cleaner	-
042		White plastic	Wrap sleeve, subject, vacuum cleaner	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
043		Blue plastic	Fixed, vacuum cleaner	-
044		Black soft plastic	Wrap sleeve, vacuum cleaner	-
045		Black plastic	Case, relay, vacuum cleaner	-
046		Red plastic	Button, relay, vacuum cleaner	-
047		Silvery metal	Contact plate, relay, vacuum cleaner	-
048		Coppery metal	Contact plate, relay, vacuum cleaner	-
049		Silvery solder	Solder, relay, vacuum cleaner	-
050		Black plastic	Wire jacket	-
051		Red plastic	Wire jacket	-
052		Black plastic	Wire sleeve	-
053		White plastic	Connector	-
054		Silvery metal	Horn, connector	-
055		Black/translucent soft plastic	Button cover, switch, vacuum cleaner	-
056		White plastic	Case, switch, vacuum cleaner	-
057		Black plastic	Holder, switch, vacuum cleaner	-
058		Silvery metal	Spring, holder, vacuum cleaner	-
059		Beige plastic	Connector, PCB	-
060		Silvery metal	Horn, connector	-
061		White plastic	Button, switch, vacuum cleaner	-
062		Black plastic	Holder, switch, vacuum cleaner	-
063		Silvery metal	Gasket, switch, vacuum cleaner	-





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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
064		Silvery metal	Case, switch, vacuum cleaner	-
065		Brown plastic	Patch, switch, vacuum cleaner	-
066		Silvery metal	Gasket, switch, vacuum cleaner	-
067		Transparent plastic	LED, PCB	-
068		Black body	SMD IC	-
069		Black body	SMD resistor	-
070		Brown body	SMD capacitor	-
071		Black body	SMD diode	-
072		Black plastic	Holder, capacitor	-
073		Black coated silvery metal	Electrolytic capacitor shell	-
074		Black soft plastic	Rubber seal	-
075		Grey metal	Aluminum foil	-
076		Silvery metal	Aluminum foil	-
077		Brown paper	Electrolytic paper	-
078		Silvery metal	Pin of electrolytic capacitor	-
079		White printed green plastic	PCB, switch, vacuum cleaner	-
080			Translucent plastic	Kettle, vacuum cleaner
081	White plastic		Rotating button, kettle, vacuum cleaner	-
082	Black soft plastic		Holder, kettle, vacuum cleaner	-
083	White plastic		Holder, kettle, vacuum cleaner	-
084	Black plastic		Head, kettle, vacuum cleaner	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
085		Silvery metal	Spring, kettle, vacuum cleaner	-
086		Transparent plastic	Net, kettle, vacuum cleaner	-
087		Silvery metal	Fixed screw, kettle, vacuum cleaner	-
088		Silvery metal	Screw, kettle, vacuum cleaner	-
089		Black soft plastic	Sealing water cushion, kettle, vacuum cleaner	-
090		White plastic	Kettle, vacuum cleaner	-
091		Black soft plastic	Holder, kettle, vacuum cleaner	-
092		Black soft plastic	Sealing water cushion, kettle, vacuum cleaner	-
093		Blue plastic	Case, filter unit, kettle, vacuum cleaner	-
094		Blue plastic	Cover, filter unit, kettle, vacuum cleaner	-
095		Translucent plastic	Filtering the ball, filter unit, kettle, vacuum cleaner	-
096		Gray plastic	Ring, motor, vacuum cleaner	-
097		Coppery metal	Nut, ring, motor, vacuum cleaner	-
098		Black soft plastic	Holder, motor, vacuum cleaner	-
099		Black plastic	Motor head, motor, vacuum cleaner	-
100		Black printed silvery plastic	Label, motor, vacuum cleaner	-
101		Silvery metal	Nut, motor, vacuum cleaner	-
102		Black soft plastic	Vacuum tube head, vacuum cleaner	-
103		Black soft plastic	Vacuum tube sleeve, vacuum cleaner	-
104		Silvery metal	Ring, vacuum tube, vacuum cleaner	-

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
105		Black soft plastic	Ring sleeve, vacuum tube, vacuum cleaner	-
106		Black soft plastic	Vacuum tube end, vacuum cleaner	-
107		White plastic	Case, vacuum tube, vacuum cleaner	-
108		Black soft plastic	Ring, case, vacuum tube, vacuum cleaner	-
109		Silvery metal	Magnet, vacuum tube, vacuum cleaner	-
110		Gray coating	Coating, holder foot, vacuum cleaner	-
111		Gray metal	Holder foot, vacuum cleaner	-
112		Gray soft plastic	Pulley sleeve	-
113		Blue plastic	Frame, pulley	-
114		Silvery metal	Pulley ring, pulley	-
115		Silvery metal	Gasket, pulley	-
116		Silvery metal	Nut, pulley	-
117		Gray plastic	Case, clean the device	-
118		Gray plastic	Cover, clean the device	-
119		Black soft plastic	Head, clean the device	-
120		Black soft plastic	Conveyor belt, clean the device	-
121		Silvery white metal	Big rotating disc, clean the device	-
122		Silvery metal	Shaft, rotating disc, clean the device	-
123		Bright silvery metal	Rotating disc, clean the device	-
124		Silvery white metal	Small rotating disc, clean the device	-
125		Black coated silvery metal	Ring, small rotating disc, clean the device	-



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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
126		Beige plastic	Case, relay, PCB	-
127		Black plastic	Holder, relay, PCB	-
128		Copper metal	Contact plate, relay, PCB	-
129		Silvery metal	Contact plate, relay, PCB	-
130		Golden metal	Contact plate, relay, PCB	-
131		Silvery metal	Horn, relay, PCB	-
132		Green plastic	Terminal, PCB	-
133		Silvery metal	Screw, terminal, PCB	-
134		Silvery metal	Contact plate, terminal, PCB	-
135		Copper metal	Contact plate, terminal, PCB	-
136		White plastic	Housing, PCB	-
137		Silvery metal	Horn, housing, PCB	-
138		Black plastic	Holder, capacitor	-
139		Black coated silvery metal	Electrolytic capacitor shell	-
140		Black soft plastic	Rubber seal	-
141		Grey metal	Aluminum foil	-
142	Silvery metal	Aluminum foil	-	
143	Brown paper	Electrolytic paper	-	
144	Silvery metal	Pin of electrolytic capacitor	-	
145	Silvery solder	Solder, PCB	-	
146	White printed green plastic	PCB, clean the device	-	

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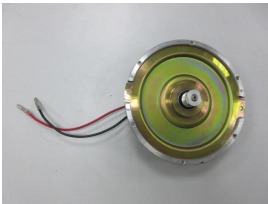


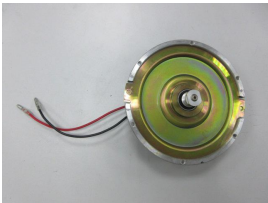


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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
147		Translucent soft plastic	Wire sleeve(small)	-
148		Silvery metal	Contact plate	-
149		Red plastic	Wire jacket(small)	-
150		Red printed black plastic	Wire jacket(small)	-
151		Silvery metal	Wire (small)	-
152		Red soft plastic	Wire jacket(big)	-
153		Black soft plastic	Wire jacket(big)	-
154		Silvery metal	Wire(big)	-
155		Black plastic	Wire sleeve(big)	-
156		Transparent plastic	Wire sleeve(big)	-
157		Red plastic	Wire jacket(centre)	-
158		Black plastic	Wire jacket(centre)	-
159		Silvery metal	Wire(centre)	-
160		Black sleeve	Wire sleeve(centre)	-
161		Black soft plastic	Motor sleeve	-
162		Silvery metal	Holder, motor	-
163		Black plastic	Frame, motor	-
164		Gray plastic	Fixed, motor	-
165		Silvery metal	Terminal, motor	-
166		Silvery metal	Spring, motor	-
167		Black plastic	Wire jacket	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
168		Silvery metal	Wire	-
169		White/red plastic	Wire sleeve	-
170		White/blue plastic	Wire sleeve	-
171		Coppery metal	Contact plate	-
172		Gray metal	Terminal, motor	-
173		Silvery metal	Holder, motor	-
174		Silvery solder	Solder, contact plate	-
175		White plastic	Pipe, motor	-
176		Rice white plastic	Frame, motor	-
177		Coppery metal	Coil of motor	-
178		Silvery metal	Case, motor	-
179		Silvery metal	Coil of motor	-
180		Coppery metal	Head, motor	-
181		Silvery metal	Motor leaf	-
182		Silvery metal	Case, gear, vacuum cleaner	-
183		Coppery metal	Cover, gear, vacuum cleaner	-
184		Color metal	Holder, gear, vacuum cleaner	-
185		Black plastic	Holder, gear, vacuum cleaner	-
186		Translucent plastic	Fixed, gear, vacuum cleaner	-
187		Black soft plastic	Fixed, gear, vacuum cleaner	-

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
188		Red soft plastic	Wire jacket	-
189		Black soft plastic	Wire jacket	-
190		Silvery metal	Wire	-
191		Silvery metal	Pulley, gear, vacuum cleaner	-
192		Black metal	Magnet, gear, vacuum cleaner	-
193		Brown plastic	Ring, pulley, gear, vacuum cleaner	-
194		Silvery gray metal	Head, gear, vacuum cleaner	-
195		Black coated silvery metal	Circlip, gear, vacuum cleaner	-
196		Black plastic	Ring, pulley, gear, vacuum cleaner	-
197		Coppery metal	Contact plate	-
198		Gray metal	Bead, gear, vacuum cleaner	-
199		Silvery metal	Shaft, gear, vacuum cleaner	-
200			Gray plastic	Case, magnet, vacuum cleaner
201	Coppery metal		Nut, magnet, vacuum cleaner	-
202	Silvery metal		Magnet	-
203		White plastic	Box, vacuum cleaner	-
204		Black plastic	Holder, vacuum cleaner	-
205		White/gray plastic	Side cover, vacuum cleaner	-
206		Black plastic	Holder, clean the device	-
207		Silvery metal	Gasket, clean the device	-
208		Gray plastic	Fixed, clean the device	-






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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
209		Gray plastic	Cap, screw, vacuum cleaner	-
210		Silvery metal	Big screw, vacuum cleaner	-
211		Black plastic	Holder	-
212		Silvery metal	Spring, holder	-
213		Silvery metal	Short screw nut	-
214		Silvery metal	Long screw nut	-
215		Silvery/blue metal	Screw, vacuum cleaner	-
216		Silvery metal	Screw, gear, vacuum cleaner	-
217		Black coated silvery metal	Screw, vacuum cleaner	-
218		Silvery metal	Gasket, vacuum cleaner	-
219		White plastic	Base cover, vacuum cleaner	-
220		Blue soft plastic	Brushing, clean the device	-
221		Yellow soft plastic	Brushing, clean the device	-
222		Black printed red plastic	Label, clean the device	-
223		Blue plastic	Holder, brushing, clean the device	-
224		Black plastic	Cover, brushing, clean the device	-
225		Silvery metal	Screw, brushing, clean the device	-
226		Transparent blue soft plastic	Patch, gear, vacuum cleaner	-
227		Gray plastic	Frame, gear, vacuum cleaner	-
228		Gray plastic	Cap, screw, gear, vacuum cleaner	-
229		Silvery metal	Screw, gear, vacuum cleaner	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
230		Black plastic	Pulley, gear, vacuum cleaner	-
231		Silvery metal	Nut, gear, vacuum cleaner	-
232		Silvery metal	Screw, gear, vacuum cleaner	-
233		Black plastic	Case, AC plug	-
234		Black plastic	Holder, AC plug	-
235		Silvery metal	AC plug	-
236		Black plastic	Cable jacket	-
237		Brown plastic	Wire jacket	-
238		Blue plastic	Wire jacket	-
239		Coppery metal	Wire	-
240		Black plastic	Case, AC out plug	-
241		Coppery metal	Contact, AC out plug	-
242			Black plastic	Box, battery charger
243	Black printed silvery plastic		Label, battery charger	-
244	Black/white/green/red plastic with adhesive		Button cover, battery charger	-
245	Black coated silvery metal		Screw, battery charger	-
246		Black plastic	Nut, DC plug	-
247		Black plastic	Case, DC plug	-
248		Coppery metal	Contact plate	-
249		Silvery solder	Solder, contact plate	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
250		Green plastic	Wire jacket	-
251		Coppery metal	Wire	-
252		Black plastic	SR, cable jacket	-
253		Yellow plastic with adhesive	Adhesive tape	-
254		Black plastic	Case, AC plug, PCB	-
255		Silvery metal	AC plug	-
256		Silvery metal	Contact plate	-
257		Silvery metal	Fixed board, PCB	-
258		White printed blue plastic	Electrolytic capacitor sleeve	-
259		Silvery metal	Electrolytic capacitor shell	-
260		Black soft plastic	Rubber seal	-
261		Grey metal	Aluminum foil	-
262		Silvery metal	Aluminum foil	-
263		Brown paper	Electrolytic paper	-
264		Silvery metal	Pin of electrolytic capacitor	-
265		White printed black plastic	Electrolytic capacitor sleeve	-
266		Black plastic	Capacitor gasket	-
267		Yellow plastic with adhesive	Adhesive tape of transformer	-
268		Black plastic	Frame of transformer	-
269		Coppery metal	Wire	-
270		Black metal	Magnet	-
271	Coppery metal	Coil of transformer	-	

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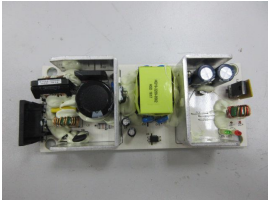


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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
272		Black plastic	Frame of inductance	-
273		White plastic	Frame of inductance	-
274		Coppery metal	Coil of inductance	-
275		Green core	Core of inductance	-
276		Red metal	Coil of inductance	-
277		Pale yellow glue	Glue	-
278		Yellow body	Capacitor	-
279		Black body	Resistor	-
280		Gray body	Resistor	-
281		Blue body	Capacitor	-
282		Brown body	Capacitor	-
283		Red plastic	LED	-
284		Green plastic	LED	-
285		Beige plastic	Holder, LED, PCB	-
286		Silvery metal	Horn, LED, PCB	-
287		Black body	Triode	-
288		Black body	Diode	-
289		Silvery metal	Jump wire	-
290		Transparent body	Glass diode	-
291		Black body	SMD IC	-
292	Black body	SMD resistor	-	

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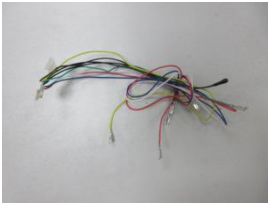
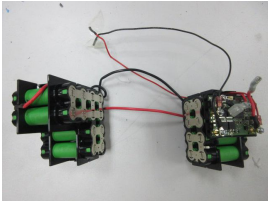
Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
293		Brown body	SMD capacitor	-
294		Silvery solder	Solder, PCB	-
295		White printed green plastic	PCB, battery charger	-
296		Silvery metal	Contact plate	-
297		Silvery solder	Solder, PCB	-
298		White printed green plastic	PCB	-
299		Gray plastic	Box, battery charger	-
300		Black printed silvery plastic	Label, battery charger	-
301		Black plastic with adhesive	Switch cover, box, battery charger	-
302		Black soft plastic	Gasket, switch cover, box, battery charger	-
303		Coppery/black plastic	Information belt	-
304		Coppery metal	Contact plate	-
305		Silvery metal	Nut, DC plug, box, battery charger	-
306		Black plastic	Case, DC plug	-
307		Black soft plastic	Ring, DC plug	-
308		Green plastic	Ring, DC plug	-
309	Coppery metal	Horn, DC plug	-	
310	Silvery solder	Solder, DC Plug	-	
311		White plastic	Connector	-
312		Silvery metal	Horn, connector	-
313		Black plastic	Wire jacket	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
314		Green plastic	Wire jacket	-
315		Yellow plastic	Wire jacket	-
316		White plastic	Wire jacket	-
317		Red plastic	Wire jacket	-
318		Blue plastic	Wire jacket	-
319		Silvery metal	Wire	-
320		Silvery metal	Contact plate	-
321		Black plastic	Frame, battery	-
322		Black plastic	Wire jacket(big)	-
323		Red plastic	Wire jacket(big)	-
324		Silvery metal	Wire	-
325		Pink plastic	Wire sleeve	-
326		Black plastic	Wire sleeve	-
327		Red plastic	Wire jacket(small)	-
328		Black plastic	Wire jacket(small)	-
329		Silvery metal	Wire	-
330		Transparent yellow plastic	Protection battery patch	-
331		Coppery metal	Holder, PCB, battery	-
332		Transparent plastic	Wire sleeve	-
333		Beige plastic	Connector, PCB	-
334		Silvery metal	Horn, connector, PCB	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
335	A photograph showing two printed circuit boards (PCBs) with various electronic components. One board has a prominent green plastic component, and the other has a white body component. Wires are connected to the boards.	Brown plastic	Connector, PCB	-
336		White body	Fuse, PCB	-
337		Green plastic	PCB	-

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2. Test Result

2.1: XRF Screening test results

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

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

Instrument: Energy dispersive X-ray fluorescence spectrometer

Material No.	ppm[mg/kg]				
	Pb	Cd	Hg	Cr	Br
	Limit (mg/kg)				
	1000	100	1000	Cr VI:1000	PBB: 1000 PBDE: 1000
001	ND	ND	ND	ND	NA
002	ND	ND	ND	ND	D(*1)
003	ND	ND	ND	ND	ND
004	ND	ND	ND	ND	ND
005	ND	ND	ND	ND	NA
006	ND	ND	ND	D(*3)	NA
007	ND	ND	ND	ND	NA
008	ND	ND	ND	ND	NA
009	ND	ND	ND	ND	NA
010	ND	ND	ND	ND	ND
011	ND	ND	ND	ND	NA
012	ND	ND	ND	ND	ND
013	ND	ND	ND	ND	ND
014	ND	ND	ND	ND	NA
015	ND	ND	ND	ND	ND
016	ND	ND	ND	ND	ND
017	ND	ND	ND	ND	ND
018	ND	ND	ND	ND	ND
019	ND	ND	ND	ND	ND
020	ND	ND	ND	ND	ND
021	ND	ND	ND	ND	NA
022	ND	ND	ND	ND	ND
023	ND	ND	ND	ND	ND
024	ND	ND	ND	ND	ND
025	ND	ND	ND	ND	NA
026	ND	ND	ND	ND	ND
027	ND	ND	ND	ND	D(*1)
028	ND	ND	ND	ND	ND
029	ND	ND	ND	ND	NA
030	ND	ND	ND	ND	ND
031	ND	ND	ND	ND	ND
032	ND	ND	ND	ND	NA
033	ND	ND	ND	ND	NA
034	ND	ND	ND	ND	NA

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035	ND	ND	ND	ND	ND
036	ND	ND	ND	ND	ND
037	ND	ND	ND	ND	NA
038	ND	ND	ND	ND	NA
039	ND	ND	ND	ND	NA
040	ND	ND	ND	ND	ND
041	ND	ND	ND	ND	ND
042	ND	ND	ND	ND	ND
043	ND	ND	ND	ND	ND
044	ND	ND	ND	ND	ND
045	ND	ND	ND	ND	D(*1)
046	ND	ND	ND	ND	ND
047	ND	ND	ND	ND	NA
048	ND	ND	ND	ND	NA
049	ND	ND	ND	ND	NA
050	ND	ND	ND	ND	ND
051	ND	ND	ND	ND	ND
052	ND	ND	ND	ND	ND
053	ND	ND	ND	ND	ND
054	ND	ND	ND	ND	NA
055	ND	ND	ND	ND	ND
056	ND	ND	ND	ND	ND
057	ND	ND	ND	ND	ND
058	ND	ND	ND	D(*3)	NA
059	ND	ND	ND	ND	D(*1)
060	ND	ND	ND	ND	NA
061	ND	ND	ND	ND	ND
062	ND	ND	ND	ND	ND
063	ND	ND	ND	ND	NA
064	ND	ND	ND	ND	NA
065	ND	ND	ND	ND	ND
066	ND	ND	ND	ND	NA
067	ND	ND	ND	ND	ND
068	ND	ND	ND	ND	ND
069	ND	ND	ND	ND	ND
070	ND	ND	ND	ND	ND
071	ND	ND	ND	ND	ND
072	ND	ND	ND	ND	ND
073	ND	ND	ND	ND	NA
074	ND	ND	ND	ND	ND
075	ND	ND	ND	ND	NA
076	ND	ND	ND	ND	NA
077	ND	ND	ND	ND	ND
078	ND	ND	ND	ND	NA
079	ND	ND	ND	ND	D(*1)
080	ND	ND	ND	ND	ND

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081	ND	ND	ND	ND	ND
082	ND	ND	ND	ND	ND
083	ND	ND	ND	ND	ND
084	ND	ND	ND	ND	ND
085	ND	ND	ND	ND	NA
086	ND	ND	ND	ND	ND
087	ND	ND	ND	ND	NA
088	ND	ND	ND	ND	NA
089	ND	ND	ND	ND	ND
090	ND	ND	ND	ND	ND
091	ND	ND	ND	ND	ND
092	ND	ND	ND	ND	ND
093	ND	ND	ND	ND	ND
094	ND	ND	ND	ND	ND
095	ND	ND	ND	ND	ND
096	ND	ND	ND	ND	ND
097	D(*2)	ND	ND	ND	NA
098	ND	ND	ND	ND	ND
099	ND	ND	ND	ND	D(*1)
100	ND	ND	ND	ND	ND
101	ND	ND	ND	ND	NA
102	ND	ND	ND	ND	ND
103	ND	ND	ND	ND	ND
104	ND	ND	ND	ND	NA
105	ND	ND	ND	ND	ND
106	ND	ND	ND	ND	ND
107	ND	ND	ND	ND	ND
108	ND	ND	ND	ND	ND
109	ND	ND	ND	ND	NA
110	ND	ND	ND	ND	ND
111	ND	ND	ND	ND	NA
112	D(*2)	ND	ND	ND	ND
113	ND	ND	ND	ND	ND
114	ND	ND	ND	ND	NA
115	ND	ND	ND	ND	NA
116	ND	ND	ND	ND	NA
117	ND	ND	ND	ND	D(*1)
118	ND	ND	ND	ND	ND
119	ND	ND	ND	ND	ND
120	ND	ND	ND	ND	ND
121	ND	ND	ND	ND	NA
122	ND	ND	ND	ND	NA
123	ND	ND	ND	D(*3)	NA
124	ND	ND	ND	ND	NA
125	ND	ND	ND	ND	NA
126	ND	ND	ND	ND	ND

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127	ND	ND	ND	ND	ND
128	ND	ND	ND	ND	NA
129	ND	ND	ND	ND	NA
130	ND	ND	ND	ND	NA
131	ND	ND	ND	ND	NA
132	ND	ND	ND	ND	ND
133	ND	ND	ND	ND	NA
134	ND	ND	ND	ND	NA
135	ND	ND	ND	ND	NA
136	ND	ND	ND	ND	ND
137	ND	ND	ND	ND	NA
138	ND	ND	ND	ND	ND
139	ND	ND	ND	ND	NA
140	ND	ND	ND	ND	ND
141	ND	ND	ND	ND	NA
142	ND	ND	ND	ND	NA
143	ND	ND	ND	ND	ND
144	ND	ND	ND	ND	NA
145	ND	ND	ND	ND	NA
146	ND	ND	ND	ND	D(*1)
147	ND	ND	ND	ND	ND
148	ND	ND	ND	ND	NA
149	ND	ND	ND	ND	ND
150	ND	ND	ND	ND	ND
151	ND	ND	ND	ND	NA
152	ND	ND	ND	ND	ND
153	ND	ND	ND	ND	ND
154	ND	ND	ND	ND	NA
155	ND	ND	ND	ND	ND
156	ND	ND	ND	ND	ND
157	ND	ND	ND	ND	ND
158	ND	ND	ND	ND	ND
159	ND	ND	ND	ND	NA
160	ND	ND	ND	ND	ND
161	ND	ND	ND	ND	ND
162	ND	ND	ND	ND	NA
163	ND	ND	ND	ND	ND
164	ND	ND	ND	ND	ND
165	ND	ND	ND	ND	NA
166	ND	ND	ND	D(*3)	NA
167	ND	ND	ND	ND	ND
168	ND	ND	ND	ND	NA
169	ND	ND	ND	ND	ND
170	ND	ND	ND	ND	ND
171	ND	ND	ND	ND	NA
172	ND	ND	ND	ND	NA

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173	ND	ND	ND	ND	NA
174	ND	ND	ND	ND	NA
175	ND	ND	ND	ND	ND
176	ND	ND	ND	ND	ND
177	ND	ND	ND	ND	NA
178	ND	ND	ND	ND	NA
179	ND	ND	ND	ND	NA
180	ND	ND	ND	ND	NA
181	ND	ND	ND	ND	NA
182	ND	ND	ND	ND	NA
183	ND	ND	ND	D(*3)	NA
184	ND	ND	ND	D(*3)	NA
185	ND	ND	ND	ND	ND
186	ND	ND	ND	ND	ND
187	ND	ND	ND	ND	ND
188	ND	ND	ND	ND	ND
189	ND	ND	ND	ND	ND
190	ND	ND	ND	ND	NA
191	ND	ND	ND	ND	NA
192	ND	ND	ND	ND	NA
193	D(*2)	ND	ND	ND	ND
194	ND	ND	ND	ND	NA
195	ND	ND	ND	ND	NA
196	ND	ND	ND	ND	ND
197	ND	ND	ND	ND	NA
198	ND	ND	ND	ND	NA
199	ND	ND	ND	D(*3)	NA
200	ND	ND	ND	ND	D(*1)
201	ND	ND	ND	ND	NA
202	ND	ND	ND	ND	NA
203	ND	ND	ND	ND	ND
204	ND	ND	ND	ND	ND
205	ND	ND	ND	ND	ND
206	ND	ND	ND	ND	ND
207	ND	ND	ND	ND	NA
208	ND	ND	ND	ND	ND
209	ND	ND	ND	ND	ND
210	ND	ND	ND	ND	NA
211	ND	ND	ND	ND	ND
212	ND	ND	ND	D(*3)	NA
213	ND	ND	ND	D(*3)	NA
214	ND	ND	ND	D(*3)	NA
215	ND	ND	ND	D(*3)	NA
216	ND	ND	ND	ND	NA
217	ND	ND	ND	D(*3)	NA
218	ND	ND	ND	D(*3)	NA

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219	ND	ND	ND	ND	ND
220	ND	ND	ND	ND	ND
221	ND	ND	ND	ND	ND
222	ND	ND	ND	ND	ND
223	ND	ND	ND	ND	ND
224	ND	ND	ND	ND	ND
225	ND	ND	ND	ND	NA
226	ND	ND	ND	ND	ND
227	ND	ND	ND	ND	ND
228	ND	ND	ND	ND	ND
229	ND	ND	ND	ND	NA
230	ND	ND	ND	ND	ND
231	ND	ND	ND	ND	NA
232	ND	ND	ND	ND	NA
233	ND	ND	ND	ND	ND
234	ND	ND	ND	ND	D(*1)
235	D(*2)	ND	ND	ND	NA
236	ND	ND	ND	ND	ND
237	ND	ND	ND	ND	ND
238	ND	ND	ND	ND	ND
239	ND	ND	ND	ND	NA
240	ND	ND	ND	ND	ND
241	ND	ND	ND	ND	NA
242	ND	ND	ND	ND	ND
243	ND	ND	ND	ND	ND
244	ND	ND	ND	ND	ND
245	ND	ND	ND	ND	NA
246	ND	ND	ND	ND	D(*1)
247	ND	ND	ND	ND	ND
248	D(*2)	ND	ND	ND	NA
249	ND	ND	ND	ND	NA
250	ND	ND	ND	ND	ND
251	ND	ND	ND	ND	NA
252	ND	ND	ND	ND	ND
253	ND	ND	ND	ND	ND
254	ND	ND	ND	ND	D(*1)
255	ND	ND	ND	ND	NA
256	ND	ND	ND	ND	NA
257	ND	ND	ND	ND	NA
258	ND	ND	ND	ND	ND
259	ND	ND	ND	ND	NA
260	ND	ND	ND	ND	ND
261	ND	ND	ND	ND	NA
262	ND	ND	ND	ND	NA
263	ND	ND	ND	ND	ND
264	ND	ND	ND	ND	NA

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265	ND	ND	ND	ND	ND
266	ND	ND	ND	ND	ND
267	ND	ND	ND	ND	ND
268	ND	ND	ND	ND	ND
269	ND	ND	ND	ND	NA
270	ND	ND	ND	ND	NA
271	ND	ND	ND	ND	NA
272	ND	ND	ND	ND	ND
273	ND	ND	ND	ND	D(*1)
274	ND	ND	ND	ND	NA
275	ND	ND	ND	ND	ND
276	ND	ND	ND	ND	NA
277	ND	ND	ND	ND	ND
278	ND	ND	ND	ND	ND
279	ND	ND	ND	ND	ND
280	ND	ND	ND	ND	ND
281	ND	ND	ND	ND	ND
282	ND	ND	ND	ND	ND
283	ND	ND	ND	ND	D(*1)
284	ND	ND	ND	ND	D(*1)
285	ND	ND	ND	ND	ND
286	ND	ND	ND	ND	NA
287	ND	ND	ND	ND	ND
288	ND	ND	ND	ND	ND
289	ND	ND	ND	ND	NA
290	D(*2)	ND	ND	ND	ND
291	ND	ND	ND	ND	ND
292	ND	ND	ND	ND	ND
293	ND	ND	ND	ND	ND
294	ND	ND	ND	ND	NA
295	ND	ND	ND	ND	D(*1)
296	ND	ND	ND	ND	NA
297	ND	ND	ND	ND	NA
298	ND	ND	ND	ND	D(*1)
299	ND	ND	ND	ND	D(*1)
300	ND	ND	ND	ND	ND
301	ND	ND	ND	ND	ND
302	ND	ND	ND	ND	ND
303	ND	ND	ND	ND	ND
304	ND	ND	ND	ND	NA
305	ND	ND	ND	ND	NA
306	ND	ND	ND	ND	ND
307	ND	ND	ND	ND	ND
308	ND	ND	ND	D(*3)	ND
309	D(*2)	ND	ND	ND	NA
310	ND	ND	ND	ND	NA

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311	ND	ND	ND	ND	D(*1)
312	ND	ND	ND	ND	NA
313	ND	ND	ND	ND	ND
314	ND	ND	ND	ND	ND
315	ND	ND	ND	ND	ND
316	ND	ND	ND	ND	ND
317	ND	ND	ND	ND	ND
318	ND	ND	ND	ND	ND
319	ND	ND	ND	ND	NA
320	ND	ND	ND	ND	NA
321	ND	ND	ND	ND	ND
322	ND	ND	ND	ND	ND
323	ND	ND	ND	ND	ND
324	ND	ND	ND	ND	NA
325	ND	ND	ND	ND	ND
326	ND	ND	ND	ND	ND
327	ND	ND	ND	ND	ND
328	ND	ND	ND	ND	ND
329	ND	ND	ND	ND	NA
330	ND	ND	ND	ND	ND
331	D(*2)	ND	ND	ND	NA
332	ND	ND	ND	ND	ND
333	ND	ND	ND	ND	D(*1)
334	ND	ND	ND	ND	NA
335	ND	ND	ND	ND	ND
336	ND	ND	ND	ND	ND
337	ND	ND	ND	ND	D(*1)

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Remark:

-mg/kg is equal to ppm (parts per million)

(*1) The screening result was found in the inconclusive region, thus the further wet chemistry tests are suggested.

(*2) The screening result was found above the limit, thus the further wet chemistry tests are suggested.

(*3) The chromium screening result was found in the inconclusive region, thus the further wet chemistry tests are suggested.

Guidelines: XRF Screening limits for different matrices

Materials	Concentration (ppm)				
	Cd	Cr	Pb	Hg	Br
Metallic	$BL \leq 70 < X \leq 130 < OL$	$BL \leq 700 < OL$	$BL \leq 700 < X \leq 1300 < OL$	$BL \leq 700 < X \leq 1300 < OL$	NA
Polymeric	$BL \leq 70 < X \leq 130 < OL$	$BL \leq 700 < OL$	$BL \leq 700 < X \leq 1300 < OL$	$BL \leq 700 < X \leq 1300 < OL$	$BL \leq 200 < X$
Electronic Components	$DL < X \leq 150 < OL$	$BL \leq 500 < OL$	$BL \leq 700 < X \leq 1300 < OL$	$BL \leq 500 < X \leq 1500 < OL$	$BL \leq 200 < X$

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2.2: Confirmation Test Results

Test Methods: for total Lead, Cadmium, Mercury

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

For Hexavalent Chromium

-Ref. to IEC 62321-7-1: 2015, analysis 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: 2007(Leather and other materials).

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

	Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs
Limit ppm (mg/kg)	1000	100	1000	1000	1000	1000

Material No.	ppm(mg/kg)					
	Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs
002	-	-	-	-	ND	ND
006	-	-	-	Negative	-	-
027	-	-	-	-	ND	ND
045	-	-	-	-	ND	ND
058	-	-	-	Negative	-	-
059	-	-	-	-	ND	ND
079	-	-	-	-	ND	ND
085	-	-	-	Negative	-	-
097	27700(*1)	-	-	-	-	-
099	-	-	-	-	ND	ND
112	76	-	-	-	-	-
117	-	-	-	-	ND	ND
123	-	-	-	Negative	-	-
146	-	-	-	-	ND	ND
166	-	-	-	Negative	-	-
183	-	-	-	Negative	-	-
184	-	-	-	Negative	-	-
193	40	-	-	-	-	-
199	-	-	-	Negative	-	-
200	-	-	-	-	ND	ND
212	-	-	-	Negative	-	-
213	-	-	-	Negative	-	-
214	-	-	-	Negative	-	-
215	-	-	-	Negative	-	-
216	-	-	-	Negative	-	-
218	-	-	-	Negative	-	-
234	-	-	-	-	ND	ND
235	15000(*1)	-	-	-	-	-
246	-	-	-	-	ND	ND

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248	12000(*1)	-	-	-	-	-
254	-	-	-	-	ND	ND
273	-	-	-	-	ND	ND
283	-	-	-	-	ND	ND
284	-	-	-	-	ND	ND
290	6000(*2)	-	-	-	-	-
295	-	-	-	-	ND	ND
298	-	-	-	-	ND	ND
299	-	-	-	-	ND	ND
308	-	-	-	Negative	-	-
309	10000(*1)	-	-	-	-	-
311	-	-	-	-	ND	ND
331	11000(*1)	-	-	-	-	-
332	-	-	-	-	ND	ND
337	-	-	-	-	ND	ND

Remark:

(*1) According to Annex of 2011/65/EU, Lead as an alloying element in copper alloy containing up to 4 % lead by weight should be exempted.

(*2) According to Annex III of 2011/65/EU, Lead in grass of electronic components is exempted from this requirement. 电子元器件, 玻璃豁免条款

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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2.3: 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 / See ^[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
[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.					
[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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BBP/DBP/DEHP/DIBP Content – European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments up to EU No. 2015/ 863 Annex II

Test Methods:

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

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
002	Gray plastic	Holder, vacuum cleaner	-
003	Gray plastic	Fixed, vacuum cleaner	-
004	Black plastic	Ring, fixed, vacuum cleaner	-
010	White plastic	Fixed, subject, vacuum cleaner	-
012	Black soft plastic	Gasket, subject, vacuum cleaner	-
013	White plastic	Connector, subject, vacuum cleaner	-
015	Black plastic	Wire sleeve	-
016	Black plastic	Cable jacket	-
017	Black plastic	Wire jacket	-
018	Yellow plastic	Wire jacket	-
019	Blue plastic	Wire jacket	-
020	Green plastic	Wire jacket	-
022	White plastic	Wire pipe	-
023	Translucent plastic	Liquid pipe	-
024	Transparent plastic	Liquid pipe	-
026	Translucent plastic	Patch, screw, vacuum cleaner	-
027	Black plastic	Connector, vacuum cleaner	-
028	Black soft plastic	Cable jacket	-
030	Black soft plastic	Small ring, fixed, vacuum cleaner	-
031	Black plastic	Big ring, fixed, vacuum cleaner	-
035	Black printed yellow plastic	Label, Hydraulic pipe	-

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036	Black plastic	Hydraulic pipe sleeve	-
040	Blue plastic	Foot holder, vacuum cleaner	-
041	Blue plastic	Wrap, subject, vacuum cleaner	-
042	White plastic	Wrap sleeve, subject, vacuum cleaner	-
043	Blue plastic	Fixed, vacuum cleaner	-
044	Black soft plastic	Wrap sleeve, vacuum cleaner	-
045	Black plastic	Case, relay, vacuum cleaner	-
046	Red plastic	Button, relay, vacuum cleaner	-
050	Black plastic	Wire jacket	-
051	Red plastic	Wire jacket	-
052	Black plastic	Wire sleeve	-
053	White plastic	Connector	-
055	Black/translucent soft plastic	Button cover, switch, vacuum cleaner	-
056	White plastic	Case, switch, vacuum cleaner	-
057	Black plastic	Holder, switch, vacuum cleaner	-
059	Beige plastic	Connector, PCB	-
061	White plastic	Button, switch, vacuum cleaner	-
062	Black plastic	Holder, switch, vacuum cleaner	-
065	Brown plastic	Patch, switch, vacuum cleaner	-
067	Transparent plastic	LED, PCB	-
072	Black plastic	Holder, capacitor	-
074	Black soft plastic	Rubber seal	-
079	White printed green plastic	PCB, switch, vacuum cleaner	-
080	Translucent plastic	Kettle, vacuum cleaner	-
081	White plastic	Rotating button, kettle, vacuum cleaner	-

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082	Black soft plastic	Holder, kettle, vacuum cleaner	-
083	White plastic	Holder, kettle, vacuum cleaner	-
084	Black plastic	Head, kettle, vacuum cleaner	-
086	Transparent plastic	Net, kettle, vacuum cleaner	-
089	Black soft plastic	Sealing water cushion, kettle, vacuum cleaner	-
090	White plastic	Kettle, vacuum cleaner	-
091	Black soft plastic	Holder, kettle, vacuum cleaner	-
092	Black soft plastic	Sealing water cushion, kettle, vacuum cleaner	-
093	Blue plastic	Case, filter unit, kettle, vacuum cleaner	-
094	Blue plastic	Cover, filter unit, kettle, vacuum cleaner	-
095	Translucent plastic	Filtering the ball, filter unit, kettle, vacuum cleaner	-
096	Gray plastic	Ring, motor, vacuum cleaner	-
098	Black soft plastic	Holder, motor, vacuum cleaner	-
099	Black plastic	Motor head, motor, vacuum cleaner	-
100	Black printed silvery plastic	Label, motor, vacuum cleaner	-
102	Black soft plastic	Vacuum tube head, vacuum cleaner	-
103	Black soft plastic	Vacuum tube sleeve, vacuum cleaner	-
105	Black soft plastic	Ring sleeve, vacuum tube, vacuum cleaner	-
106	Black soft plastic	Vacuum tube end, vacuum cleaner	-
107	White plastic	Case, vacuum tube, vacuum cleaner	-
108	Black soft plastic	Ring, case, vacuum tube, vacuum cleaner	-
110	Gray coating	Coating, holder foot, vacuum cleaner	-
112	Gray soft plastic	Pulley sleeve	-
113	Blue plastic	Frame, pulley	-

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117	Gray plastic	Case, clean the device	-
118	Gray plastic	Cover, clean the device	-
119	Black soft plastic	Head, clean the device	-
120	Black soft plastic	Conveyor belt, clean the device	-
126	Beige plastic	Case, relay, PCB	-
127	Black plastic	Holder, relay, PCB	-
132	Green plastic	Terminal, PCB	-
136	White plastic	Housing, PCB	-
138	Black plastic	Holder, capacitor	-
140	Black soft plastic	Rubber seal	-
146	White printed green plastic	PCB, clean the device	-
147	Translucent soft plastic	Wire sleeve(small)	-
149	Red plastic	Wire jacket(small)	-
150	Red printed black plastic	Wire jacket(small)	-
152	Red soft plastic	Wire jacket(big)	-
153	Black soft plastic	Wire jacket(big)	-
155	Black plastic	Wire sleeve(big)	-
156	Transparent plastic	Wire sleeve(big)	-
157	Red plastic	Wire jacket(centre)	-
158	Black plastic	Wire jacket(centre)	-
160	Black sleeve	Wire sleeve(centre)	-
161	Black soft plastic	Motor sleeve	-
163	Black plastic	Frame, motor	-
164	Gray plastic	Fixed, motor	-
167	Black plastic	Wire jacket	-
169	White/red plastic	Wire sleeve	-
170	White/blue plastic	Wire sleeve	-
175	White plastic	Pipe, motor	-

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176	Rice white plastic	Frame, motor	-
185	Black plastic	Holder, gear, vacuum cleaner	-
186	Translucent plastic	Fixed, gear, vacuum cleaner	-
187	Black soft plastic	Fixed, gear, vacuum cleaner	-
188	Red soft plastic	Wire jacket	-
189	Black soft plastic	Wire jacket	-
193	Brown plastic	Ring, pulley, gear, vacuum cleaner	-
196	Black plastic	Ring, pulley, gear, vacuum cleaner	-
200	Gray plastic	Case, magnet, vacuum cleaner	-
203	White plastic	Box, vacuum cleaner	-
204	Black plastic	Holder, vacuum cleaner	-
205	White/gray plastic	Side cover, vacuum cleaner	-
206	Black plastic	Holder, clean the device	-
208	Gray plastic	Fixed, clean the device	-
209	Gray plastic	Cap, screw, vacuum cleaner	-
211	Black plastic	Holder	-
219	White plastic	Base cover, vacuum cleaner	-
220	Blue soft plastic	Brushing, clean the device	-
221	Yellow soft plastic	Brushing, clean the device	-
222	Black printed red plastic	Label, clean the device	-
223	Blue plastic	Holder, brushing, clean the device	-
224	Black plastic	Cover, brushing, clean the device	-
226	Transparent blue soft plastic	Patch, gear, vacuum cleaner	-
227	Gray plastic	Frame, gear, vacuum cleaner	-
228	Gray plastic	Cap, screw, gear, vacuum cleaner	-
230	Black plastic	Pulley, gear, vacuum cleaner	-

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233	Black plastic	Case, AC plug	-
234	Black plastic	Holder, AC plug	-
236	Black plastic	Cable jacket	-
237	Brown plastic	Wire jacket	-
238	Blue plastic	Wire jacket	-
240	Black plastic	Case, AC out plug	-
242	Black plastic	Box, battery charger	-
243	Black printed silvery plastic	Label, battery charger	-
244	Black/white/green/red plastic with adhesive	Button cover, battery charger	-
246	Black plastic	Nut, DC plug	-
247	Black plastic	Case, DC plug	-
250	Green plastic	Wire jacket	-
252	Black plastic	SR, cable jacket	-
253	Yellow plastic with adhesive	Adhesive tape	-
254	Black plastic	Case, AC plug, PCB	-
258	White printed blue plastic	Electrolytic capacitor sleeve	-
260	Black soft plastic	Rubber seal	-
265	White printed black plastic	Electrolytic capacitor sleeve	-
266	Black plastic	Capacitor gasket	-
267	Yellow plastic with adhesive	Adhesive tape of transformer	-
268	Black plastic	Frame of transformer	-
272	Black plastic	Frame of inductance	-
273	White plastic	Frame of inductance	-
277	Pale yellow glue	Glue	-
283	Red plastic	LED	-
284	Green plastic	LED	-
285	Beige plastic	Holder, LED, PCB	-
295	White printed green plastic	PCB, battery charger	-

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298	White printed green plastic	PCB	-
299	Gray plastic	Box, battery charger	-
300	Black printed silvery plastic	Label, battery charger	-
301	Black plastic with adhesive	Switch cover, box, battery charger	-
302	Black soft plastic	Gasket, switch cover, box, battery charger	-
303	Coppery/black plastic	Information belt	-
306	Black plastic	Case, DC plug	-
307	Black soft plastic	Ring, DC plug	-
308	Green plastic	Ring, DC plug	-
311	White plastic	Connector	-
313	Black plastic	Wire jacket	-
314	Green plastic	Wire jacket	-
315	Yellow plastic	Wire jacket	-
316	White plastic	Wire jacket	-
317	Red plastic	Wire jacket	-
318	Blue plastic	Wire jacket	-
321	Black plastic	Frame, battery	-
322	Black plastic	Wire jacket(big)	-
323	Red plastic	Wire jacket(big)	-
325	Pink plastic	Wire sleeve	-
326	Black plastic	Wire sleeve	-
327	Red plastic	Wire jacket(small)	-
328	Black plastic	Wire jacket(small)	-
330	Transparent yellow plastic	Protection battery patch	-
332	Transparent plastic	Wire sleeve	-
333	Beige plastic	Connector, PCB	-
336	Brown plastic	Connector, PCB	-
337	Green plastic	PCB	-

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Test Parameter:	BBP	DBP	DEHP	DiBP	-
Limit (%):	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)				Conclusion
002	ND	ND	ND	ND	PASS
003	ND	ND	ND	ND	PASS
004	ND	ND	ND	ND	PASS
010	ND	ND	ND	ND	PASS
012	ND	ND	ND	ND	PASS
013	ND	ND	ND	ND	PASS
015+052+160	ND	0.017	ND	ND	PASS
016	ND	ND	ND	ND	PASS
017	ND	ND	ND	ND	PASS
018	ND	ND	ND	ND	PASS
019	ND	ND	ND	ND	PASS
020	ND	ND	ND	ND	PASS
022	ND	ND	ND	ND	PASS
023+024+055	ND	0.014	ND	ND	PASS
026	ND	ND	ND	ND	PASS
027	ND	ND	ND	ND	PASS
028+153+157	ND	0.014	ND	ND	PASS
030	ND	ND	ND	ND	PASS
031	ND	ND	ND	ND	PASS
035	ND	ND	ND	ND	PASS
036	ND	ND	ND	ND	PASS
040	ND	ND	ND	ND	PASS
041	ND	ND	ND	ND	PASS
042	ND	ND	ND	ND	PASS
043	ND	ND	ND	ND	PASS
044	ND	ND	ND	ND	PASS
045	ND	ND	ND	ND	PASS
046	ND	ND	ND	ND	PASS

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Test Parameter:	BBP	DBP	DEHP	DiBP	-
Limit (%):	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)				Conclusion
050	ND	ND	ND	ND	PASS
051	ND	ND	ND	ND	PASS
053	ND	ND	ND	ND	PASS
056	ND	ND	ND	ND	PASS
057	ND	ND	ND	ND	PASS
059	ND	ND	ND	ND	PASS
061	ND	ND	ND	ND	PASS
062	ND	ND	ND	ND	PASS
065	ND	ND	ND	ND	PASS
067	ND	ND	ND	ND	PASS
072	ND	ND	ND	ND	PASS
074	ND	ND	ND	ND	PASS
079	ND	ND	ND	ND	PASS
080	ND	ND	ND	ND	PASS
081	ND	ND	ND	ND	PASS
082	ND	ND	ND	ND	PASS
083	ND	ND	ND	ND	PASS
084	ND	ND	ND	ND	PASS
086	ND	ND	ND	ND	PASS
089	ND	ND	ND	ND	PASS
090	ND	ND	ND	ND	PASS
091	ND	ND	ND	ND	PASS
092	ND	ND	ND	ND	PASS
093	ND	ND	ND	ND	PASS
094	ND	ND	ND	ND	PASS
095	ND	ND	ND	ND	PASS
096	ND	ND	ND	ND	PASS
098	ND	ND	ND	ND	PASS
099	ND	ND	ND	ND	PASS

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Limit (%):	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)				Conclusion
100	ND	ND	ND	ND	PASS
102	ND	ND	ND	ND	PASS
103	ND	ND	ND	ND	PASS
105	ND	ND	ND	ND	PASS
106	ND	ND	ND	ND	PASS
107	ND	ND	ND	ND	PASS
108	ND	ND	ND	ND	PASS
110	ND	ND	ND	ND	PASS
112	ND	ND	ND	ND	PASS
113	ND	ND	ND	ND	PASS
117	ND	ND	ND	ND	PASS
118	ND	ND	ND	ND	PASS
119	ND	ND	ND	ND	PASS
120	ND	ND	ND	ND	PASS
126	ND	ND	ND	ND	PASS
127	ND	ND	ND	ND	PASS
132	ND	ND	ND	ND	PASS
136	ND	ND	ND	ND	PASS
138	ND	ND	ND	ND	PASS
140	ND	ND	ND	ND	PASS
146	ND	ND	ND	ND	PASS
147	ND	ND	ND	ND	PASS
149	ND	ND	ND	ND	PASS
150	ND	ND	ND	ND	PASS
155	ND	ND	0.031	ND	PASS
156	ND	ND	ND	ND	PASS
158+152+220	ND	0.014	ND	ND	PASS
161	ND	ND	ND	ND	PASS
163	ND	ND	ND	ND	PASS

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Test Parameter:	BBP	DBP	DEHP	DiBP	-
Limit (%):	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)				Conclusion
164	ND	ND	ND	ND	PASS
167	ND	ND	ND	ND	PASS
169	ND	ND	0.055	ND	PASS
170	ND	ND	ND	ND	PASS
175	ND	ND	ND	ND	PASS
176	ND	ND	ND	ND	PASS
185	ND	ND	ND	ND	PASS
186	ND	ND	ND	ND	PASS
187	ND	ND	ND	ND	PASS
188	ND	ND	ND	ND	PASS
189	ND	ND	ND	ND	PASS
193	ND	0.013	ND	ND	PASS
196	ND	ND	ND	ND	PASS
200	ND	ND	ND	ND	PASS
203	ND	ND	ND	ND	PASS
204	ND	ND	ND	ND	PASS
205	ND	ND	ND	ND	PASS
206	ND	ND	ND	ND	PASS
208	ND	ND	ND	ND	PASS
209	ND	ND	ND	ND	PASS
211	ND	ND	ND	ND	PASS
219	ND	ND	ND	ND	PASS
221	ND	ND	ND	ND	PASS
222	ND	ND	ND	ND	PASS
223	ND	ND	ND	ND	PASS
224	ND	ND	ND	ND	PASS
226	ND	ND	ND	ND	PASS
227	ND	ND	ND	ND	PASS

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Limit (%):	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)				Conclusion
228	ND	ND	ND	ND	PASS
230	ND	ND	ND	ND	PASS
233*	ND	ND	ND	ND	PASS
234	ND	ND	ND	ND	PASS
236	ND	ND	ND	ND	PASS
237	ND	ND	ND	ND	PASS
238	ND	ND	ND	ND	PASS
240*	ND	ND	ND	ND	PASS
242	ND	ND	ND	ND	PASS
243	ND	ND	ND	ND	PASS
244	ND	ND	ND	ND	PASS
246	ND	ND	ND	ND	PASS
247	ND	ND	ND	ND	PASS
250	ND	0.076	0.011	ND	PASS
252	ND	0.054	ND	ND	PASS
253	ND	ND	ND	ND	PASS
254	ND	ND	ND	ND	PASS
258	ND	ND	ND	ND	PASS
260	ND	ND	ND	ND	PASS
265	ND	ND	ND	ND	PASS
266	ND	ND	ND	ND	PASS
267	ND	ND	ND	ND	PASS
268	ND	ND	ND	ND	PASS
272	ND	ND	ND	ND	PASS
273	ND	ND	ND	ND	PASS
277	ND	ND	ND	ND	PASS
283	ND	ND	ND	ND	PASS
284	ND	ND	ND	ND	PASS

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Test Parameter:	BBP	DBP	DEHP	DiBP	-
Limit (%):	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)				Conclusion
285	ND	ND	ND	ND	PASS
295	ND	ND	ND	ND	PASS
298	ND	ND	ND	ND	PASS
299	ND	ND	ND	ND	PASS
300	ND	ND	ND	ND	PASS
301	ND	ND	ND	ND	PASS
302	ND	ND	0.026	ND	PASS
303	ND	ND	ND	ND	PASS
306	ND	ND	ND	ND	PASS
307	ND	ND	ND	ND	PASS
308	ND	ND	ND	ND	PASS
311	ND	ND	ND	ND	PASS
313	ND	ND	ND	ND	PASS
314	ND	ND	ND	ND	PASS
315	ND	ND	ND	ND	PASS
316	ND	ND	ND	ND	PASS
317	ND	ND	ND	ND	PASS
318	ND	ND	ND	ND	PASS
321	ND	ND	ND	ND	PASS
322	ND	ND	ND	ND	PASS
323	ND	ND	ND	ND	PASS
325	ND	ND	ND	ND	PASS
326	ND	ND	ND	ND	PASS
327	ND	ND	ND	ND	PASS
328	ND	ND	ND	ND	PASS
330	ND	ND	ND	ND	PASS
332	ND	ND	ND	ND	PASS
333	ND	ND	ND	ND	PASS

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Test Parameter:	BBP	DBP	DEHP	DiBP	-
Limit (%):	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)				Conclusion
335	ND	ND	ND	ND	PASS
337	ND	ND	ND	ND	PASS

Note / key:

BBP = Butyl benzyl phthalate (CAS No: 85-68-7)

DBP = Dibutyl phthalate (CAS No: 84-74-2)

DEHP = Di(2-ethylhexyl) phthalate (CAS No: 117-81-7)

DiBP = Diisobutyl phthalate (CAS No: 84-69-5)

ND = Not detected % = percent

10000 mg/kg = 1 %

mg/kg = milligram(s) per kilogram

Detection Limit (%) : Each 0.005

Remark:

- The amendment will be effective on 22 July 2019. For medical devices and control instruments, effective date will be 22 July 2021.

Remark:

“*”- The above results were transferred from EST report ESTC-190214003 dated on 14 Feb, 2019.

Remark:

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

3. Photo of the Submitted Sample



EST Technology authenticate the photo on original report only

**** End of Report ****