

GROUPE SEB
ZI Montplaisir – Rue du Champ de Courses,
38780, Pont-Evêque, FRANCE

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TEST REPORT

Test Report No. : **4928252.50** Version1

Project No. : **4928252.00**

Test Report Date : **2024-11-07**

Job No. : 24-03601

Applicant : GROUPE SEB

ZI Montplaisir – Rue du Champ de Courses, 38780, Pont-Evêque,
FRANCE

Product Name : FAN CLASSIC TURBO ESSENTIAL STAND

Model No. : VU3110F3

Trade name : Rowenta

Manufacturer : GROUPE SEB VIETNAM JOINT STOCK COMPANY

Lot D-4A-CN, My Phuoc Industrial Park, My Phuoc Ward, Ben Cat Town,
Binh Duong Province, VIETNAM

Factory : GROUPE SEB VIETNAM JOINT STOCK COMPANY

Lot D-4A-CN, My Phuoc Industrial Park, My Phuoc Ward, Ben Cat Town,
Binh Duong Province, VIETNAM

Test Requested

RoHS Directive 2011/65/EU & Amendment Directive (EU) 2015/863

Sample Received : 2024-10-29

Testing Period : 2024-10-29 to 2024-11-07

Test Results : Refer to data listed in following pages

Conclusion:

PASS

TESTED SAMPLE PHOTO:

Signed for and on behalf of

DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch
Chemical & Mechanical



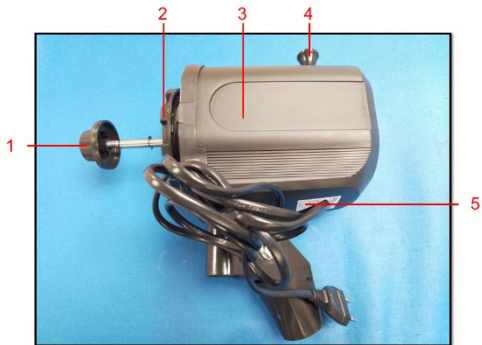
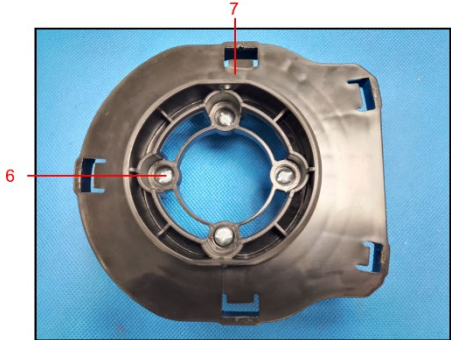
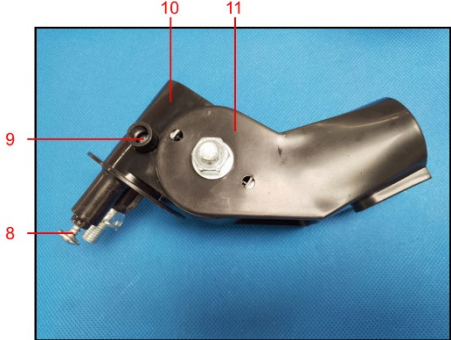

Devin Ai
Laboratory Manager

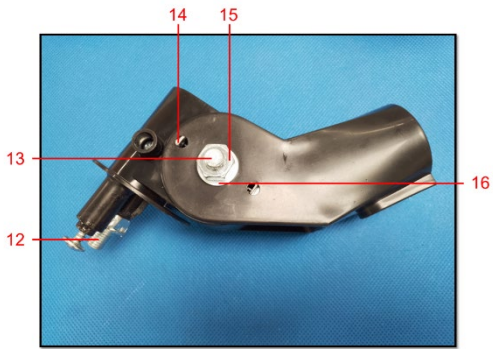
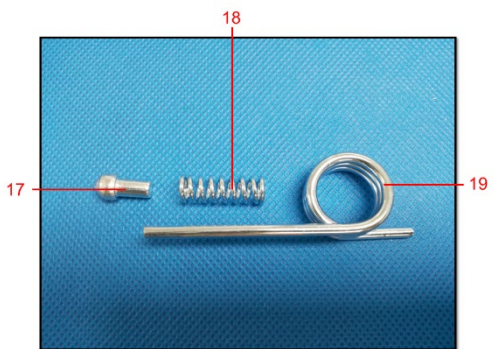
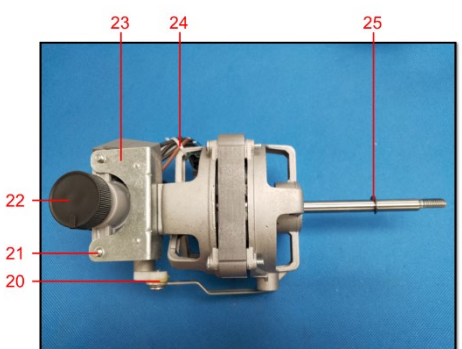
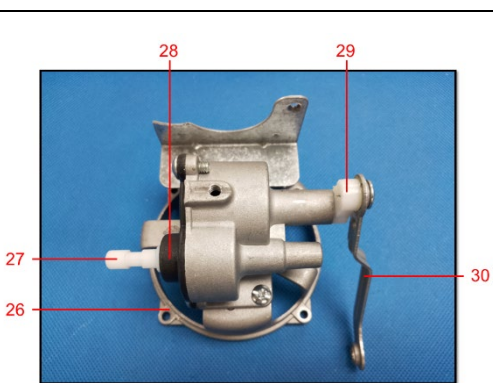
Attention: Please note that every statement made in this report is only valid for the samples tested and reported herein. This report shall not be reproduced except in full, without the written approval of the testing laboratory.

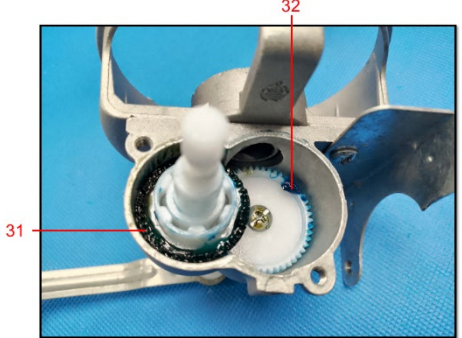
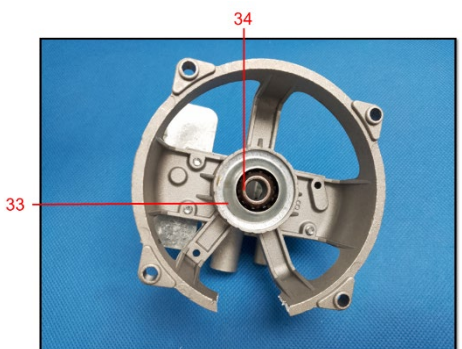
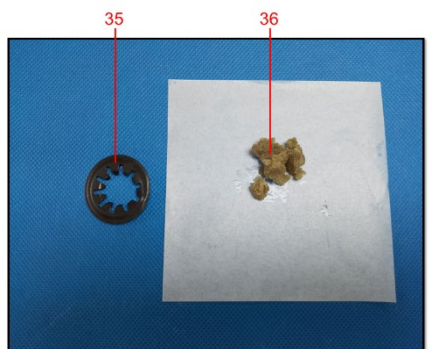
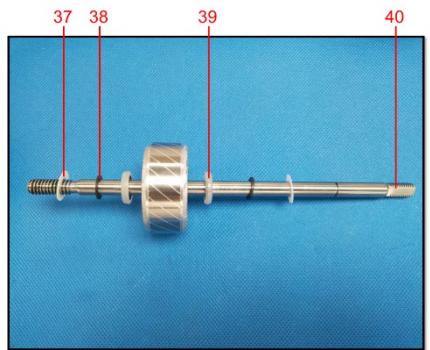
TEST RESULTS

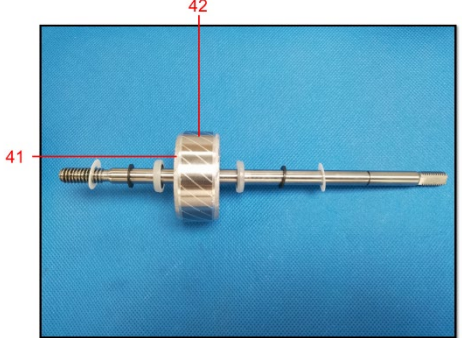
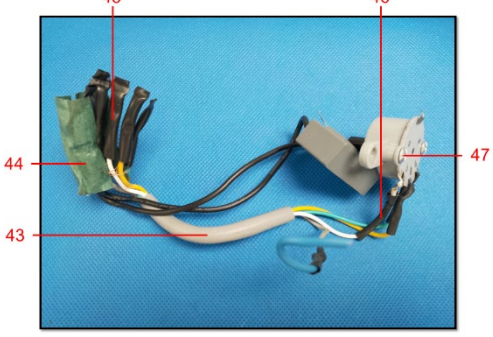
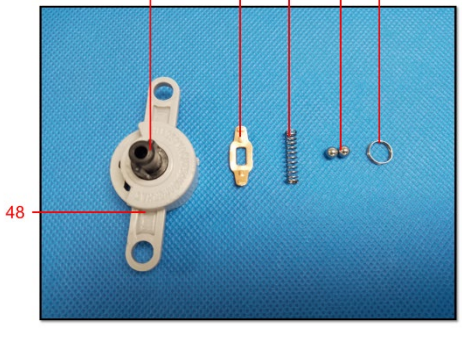
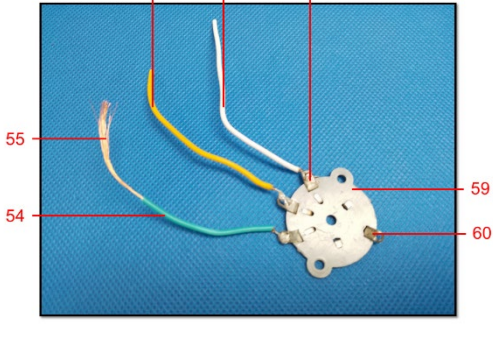
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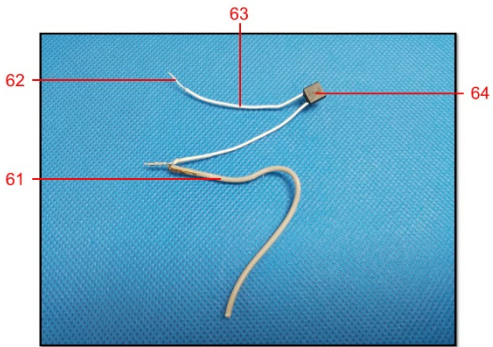
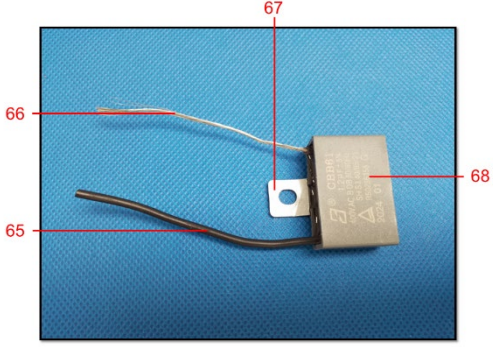
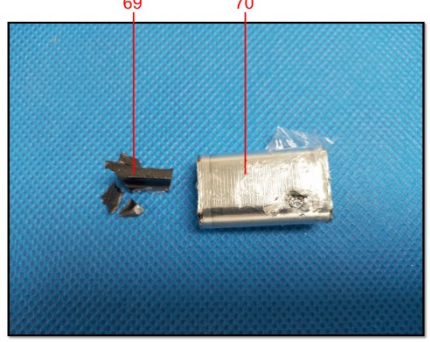
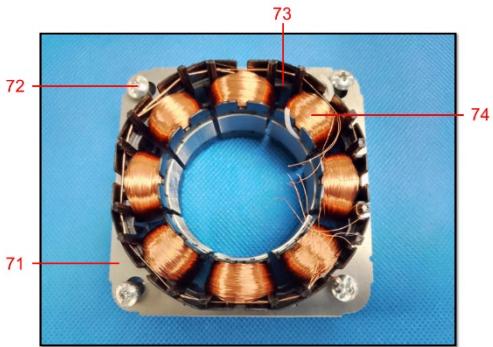
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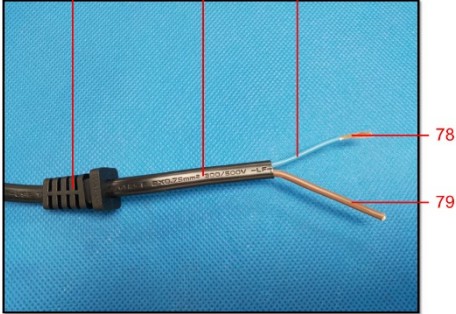
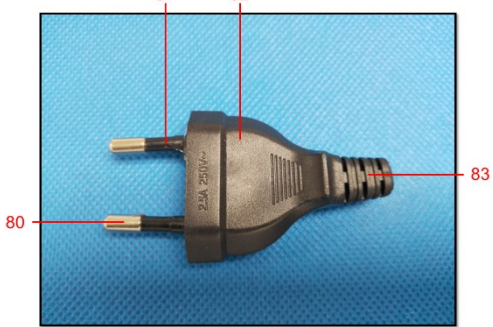
Test No.	Name of material	Photograph
1	Black plastic	
2	Black plastic	
3	Black plastic	
4	Black plastic	
5	White label sticker	
6	Silvery metal screw	
7	Black plastic	
8	Silvery metal screw	
9	Silvery metal screw	
10	Black plastic	
11	Black plastic	

Test No.	Name of material	Photograph
12	Silvery metal screw	
13	Silvery metal screw	
14	Silvery metal	
15	Silvery metal nut	
16	Silvery metal	
17	Silvery metal	
18	Silvery metal spring	
19	Silvery metal spring	
20	Yellow lubricating oil	
21	Silvery metal screw	
22	Black plastic	
23	Silvery metal	
24	White plastic	
25	Black metal	
26	Silvery metal	
27	White plastic	
28	Black plastic	
29	White plastic	
30	Silvery metal	

Test No.	Name of material	Photograph
31	Green lubricating oil	
32	Blue lubricating oil	
33	Silvery metal	
34	Copper metal	
35	Black metal	
36	Yellow lubricating oil/fiber	
37	White plastic	
38	Black rubber	
39	White plastic	
40	Silvery metal screw	

Test No.	Name of material	Photograph
41	Silvery metal	
42	Silvery metal	
43	Grey plastic	
44	Green paper	
45	Black plastic	
46	Black plastic	
47	Silvery metal	
48	Grey plastic	
49	Black plastic	
50	Coppery metal	
51	Silvery metal spring	
52	Silvery metal	
53	Silvery metal spring	
54	Green plastic	
55	Coppery metal	
56	Yellow plastic	
57	White plastic	
58	Silvery metal solder	
59	Grey plastic	
60	Beige metal	

Test No.	Name of material	Photograph
61	Grey plastic	
62	Silvery metal	
63	White plastic	
64	Black plastic	
65	Black plastic	
66	Silvery metal	
67	Silvery metal	
68	Grey plastic	
69	Black plastic(in no.68)	
70	Silvery plastic(in no.68)	
71	Silvery metal	
72	Silvery metal screw	
73	Black plastic	
74	Coppery metal	

Test No.	Name of material	Photograph
75	Black plastic	
76	Black plastic	
77	Blue plastic	
78	Coppery metal	
79	Brown plastic	
80	Silvery metal	
81	Black plastic	
82	Black plastic	
83	Black plastic	

A. Screening Test

Test No.	Result (mg/kg)				
	Pb	Cd	Hg	Cr	Br
1	BL	BL	BL	BL	BL
2	BL	BL	BL	BL	BL
3	BL	BL	BL	BL	BL
4	BL	BL	BL	BL	BL
5	BL	BL	BL	BL	BL
6	BL	BL	BL	BL	BL
7	BL	BL	BL	BL	BL
8	BL	BL	BL	BL	BL
9	BL	BL	BL	BL	BL
10	BL	BL	BL	BL	BL
11	BL	BL	BL	BL	BL
12	BL	BL	BL	BL	BL
13	BL	BL	BL	BL	BL
14	BL	BL	BL	BL	BL
15	BL	BL	BL	BL	BL
16	BL	BL	BL	BL	BL
17	BL	BL	BL	BL	BL
18	BL	BL	BL	BL	BL
19	BL	BL	BL	BL	BL
20	BL	BL	BL	BL	BL

Test No.	Result (mg/kg)				
	Pb	Cd	Hg	Cr	Br
21	BL	BL	BL	IC	N.A.
22	BL	BL	BL	BL	BL
23	BL	BL	BL	BL	N.A.
24	BL	BL	BL	BL	BL
25	BL	BL	BL	IC	N.A.
26	BL	BL	BL	BL	N.A.
27	BL	BL	BL	BL	BL
28	BL	BL	BL	BL	BL
29	BL	BL	BL	BL	BL
30	BL	BL	BL	BL	N.A.
31	BL	BL	BL	BL	BL
32	BL	BL	BL	BL	BL
33	BL	BL	BL	BL	N.A.
34	BL	BL	BL	BL	N.A.
35	BL	BL	BL	BL	N.A.
36	BL	BL	BL	BL	BL
37	BL	BL	BL	BL	BL
38	BL	BL	BL	BL	BL
39	BL	BL	BL	BL	BL
40	BL	BL	BL	IC	N.A.
41	BL	BL	BL	BL	N.A.
42	BL	BL	BL	IC	N.A.
43	BL	BL	BL	BL	BL
44	BL	BL	BL	BL	BL
45	BL	BL	BL	BL	BL
46	BL	BL	BL	BL	BL
47	BL	BL	BL	IC	N.A.
48	BL	BL	BL	BL	BL
49	BL	BL	BL	BL	BL
50	BL	IC	BL	BL	N.A.
51	BL	BL	BL	IC	N.A.
52	BL	BL	BL	IC	N.A.
53	BL	BL	BL	BL	N.A.
54	BL	BL	BL	BL	BL
55	BL	BL	BL	BL	N.A.
56	BL	BL	BL	BL	BL
57	BL	BL	BL	BL	BL
58	BL	BL	BL	BL	N.A.
59	BL	BL	BL	BL	BL
60	BL	BL	BL	BL	N.A.
61	BL	BL	BL	BL	BL
62	BL	BL	BL	BL	N.A.
63	BL	BL	BL	BL	BL
64	BL	BL	BL	BL	BL
65	BL	BL	BL	BL	BL
66	BL	BL	BL	BL	N.A.
67	BL	BL	BL	IC	N.A.
68	BL	BL	BL	BL	IC
69	BL	BL	BL	BL	BL
70	BL	BL	BL	BL	BL
71	BL	BL	BL	IC	N.A.
72	BL	BL	BL	IC	N.A.
73	BL	BL	BL	BL	BL

Test No.	Result (mg/kg)				
	Pb	Cd	Hg	Cr	Br
74	BL	BL	BL	BL	N.A.
75	BL	BL	BL	BL	BL
76	BL	BL	BL	BL	BL
77	BL	BL	BL	BL	BL
78	BL	IC	BL	BL	N.A.
79	BL	BL	BL	BL	BL
80	BL	BL	BL	BL	N.A.
81	BL	BL	BL	BL	IC
82	BL	BL	BL	BL	BL
83	BL	BL	BL	BL	BL

Remark:

1. mg/kg = Milligram per kilogram
2. BL = Below Limit
3. OL = Over Limit, represents test item needs further confirmation.
4. IC = Inconclusive, represents test item needs further confirmation.
5. N.A. = Not Applicable
6. There are the results on total Br while test items on restricted substances are PBBs and PBDEs.
There are the results on total Cr while test item on restricted substance is Cr(VI).

Disclaimers:

This XRF screening result is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes. The results shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.).

B. Chemical Test

Test Item	Result (mg/kg)	
	(50)	(78)
Cadmium (Cd)	N.D.	N.D.

Test Item	Result			
	(6)	(9)	(13)	(16)
Hexavalent Chromium Cr(VI)	Negative	Negative	Negative	Negative

Test Item	Result			
	(17)	(18)	(21)	(25)
Hexavalent Chromium Cr(VI)	Negative	Negative	Negative	Negative

Test Item	Result			
	(40)	(42)	(47)	(51)
Hexavalent Chromium Cr(VI)	Negative	Negative	Negative	Negative

Test Item	Result			
	(52)	(67)	(71)	(72)
Hexavalent Chromium Cr(VI)	Negative	Negative	Negative	Negative

Test Item	Result (mg/kg)	
	(68)/(81)	
PBBs	N.D.	
PBDEs	N.D.	

Remark:

1. N.D. = Not Detected, less than MDL
2. mg/kg = Milligram per kilogram
3. According to IEC 62321-7-1:2015 Ed.1.0, result on Cr(VI) for metal sample is shown as Positive/Negative.
Negative = Absence of Cr(VI) in coating layer, Positive = Presence of Cr(VI) in coating layer.

Note:

Results were obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) were recommended to be performed, if the concentration exceeded the warning value according to IEC 62321-3-1:2013 Ed. 1.0 (unit: mg/kg).

C. Phthalates Test

For plasticised material(s) in test components

Test Item	Result (mg/kg)						MDL (mg/kg)	Limit (mg/kg)
	(1)	(2)	(3)	(4)	(5)	(7)		
Bis(2-ethylhexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000

Test Item	Result (mg/kg)						MDL (mg/kg)	Limit (mg/kg)
	(10)	(11)	(20)	(22)	(24)	(27)		
Bis(2-ethylhexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000

Test Item	Result (mg/kg)						MDL (mg/kg)	Limit (mg/kg)
	(28)	(29)	(31)	(32)	(36)	(37)		
Bis(2-ethylhexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000

Test Item	Result (mg/kg)						MDL (mg/kg)	Limit (mg/kg)
	(38)	(39)	(43)	(44)	(45)	(46)		
Bis(2-ethylhexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000

Test Item	Result (mg/kg)						MDL (mg/kg)	Limit (mg/kg)
	(48)	(49)	(54)	(56)	(57)	(59)		
Bis(2-ethylhexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000

Test Item	Result (mg/kg)						MDL (mg/kg)	Limit (mg/kg)
	(61)	(63)	(64)	(65)	(68)	(69)		
Bis(2-ethylhexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000

Test Item	Result (mg/kg)						MDL (mg/kg)	Limit (mg/kg)
	(70)	(73)	(75)	(76)	(77)	(79)		
Bis(2-ethylhexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	1000

Test Item	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
	(81)	(82)	(83)		
Bis(2-ethylhexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	100	1000
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	100	1000
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	100	1000
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	100	1000

Remark:

1. N.D. = Not Detected (below MDL)
2. MDL = Method Detection Limit
3. mg/kg = Milligram per kilogram

Test Method

A. Screening test by XRF spectroscopy: With reference to IEC 62321-3-1: 2013 Ed. 1.0 Screening - Lead, mercury, cadmium, total chromium and total bromine using X-ray fluorescence spectrometry.

Screening limits in mg/kg for regulated elements in various material.

Element	Polymer Material	Metallic Material	Composite Material
Cadmium (Cd)	BL≤70<IC<130≤OL	BL≤70<IC<130≤OL	LOD<IC<150≤OL
Lead (Pb)	BL≤700<IC<1300≤OL	BL≤700<IC<1300≤OL	BL≤500<IC<1500≤OL
Mercury (Hg)	BL≤700<IC<1300≤OL	BL≤700<IC<1300≤OL	BL≤500<IC<1500≤OL
Bromine (Br)	BL≤300<IC	N.A.	BL≤250<IC
Chromium (Cr)	BL≤700<IC	BL≤700<IC	BL≤500<IC

BL = Below Limit, OL = Over Limit, IC=Inconclusive, N.A. = Not Applicable, LOD=Limit of Detection

B. Chemical Test

Test Item	Test Method	Test Instrument	MDL	EU RoHS Limit (mg/kg)
Lead (Pb)	IEC 62321-5: 2013 Ed. 1.0 Sec.7	ICP-OES	5mg/kg	1000
Cadmium (Cd)	IEC 62321-5: 2013 Ed. 1.0 Sec.7	ICP-OES	5mg/kg	100
Mercury (Hg)	IEC 62321-4: 2013 AMD 1:2017 Ed. 1.0 Sec.7	ICP-OES	5mg/kg	1000
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015 Ed.1.0 Sec.7	UV-Vis	0.1µg/cm ²	1000
	IEC 62321-7-2:2017 Ed.1.0 Sec.7	UV-Vis	2mg/kg	
Polybrominated Biphenyls (PBBs)	IEC 62321-6: 2015 Ed. 1.0 Sec.8	GC-MS	10mg/kg	1000
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6: 2015 Ed. 1.0 Sec.8	GC-MS	10mg/kg	1000
Bis(2-ethylhexyl) phthalate (DEHP)	IEC 62321-8: 2017 Ed. 1.0 Sec.8	GC-MS	100mg/kg	1000
Butyl benzyl phthalate (BBP)	IEC 62321-8: 2017 Ed. 1.0 Sec.8	GC-MS	100mg/kg	1000
Dibutyl phthalate (DBP)	IEC 62321-8: 2017 Ed. 1.0 Sec.8	GC-MS	100mg/kg	1000
Diisobutyl phthalate (DIBP)	IEC 62321-8: 2017 Ed. 1.0 Sec.8	GC-MS	100mg/kg	1000

---End of Report---