

TEST REPORT

Company Name	Hunter Douglas Europe B.V.
Shown on Report:	
Address:	Blaak 555,3011 GB Rotterdam, The Netherlands

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Name:	DC Motor		
Sample Model:	M22T-G2, ID: 17.0906.0000/17.0950.0000		
Manufacturer:	Shenzhen BOFU Smart Co., Ltd		
Address:	7 floor, No. 92, Tuopu Industrial Zone, Lingxia Road, Bao'an District, Shenzhen		
Sample quantity:	3 pieces		
Sample Received Date:	Aug.05, 2024		
Test Period:	Aug.05, 2024 – Aug.19, 2024		
Date of Issue:	Aug.23, 2024		

ISSUED BY:	▲				
GUANGDON		TING CO.,LTD.			
Tested by:	Jason	Checked by:	Lily	Approved by:	Sam Xie
	Jason	-	lily		Sam Xie

Anti-counterfeiting code: zkqr



1. Test Requested and Test Conclusion:

Based on the performed tests on specified material(s) or submitted sample(s).

Test items	Conclusion
RoHS Directive 2011/65/EU Revised instructions (EU) 2015/863 of the European part	
council on the restriction of the use of certain hazardous substances in electrical and electrical	ctronic equipment
-Lead (Pb)/ Cadmium(Cd)/ Mercury(Hg)/ Hexavalent Chromium(Cr ⁶⁺) content.	PASS
-Polybrominated biphenyls (PBBs) &Polybrominated diphenyl ethers (PBDEs) content.	PASS
- Dibutyl phthalate (DBP), Benzylbutyl phthalate (BBP), Di-(2-ethylhexyl) phthalate (DEHP), Diisobutyl phthalate(DIBP) content	PASS





2. Sample description and sample photo list:

Sample No.	cription and sample photo list: Description	Sample photo
1	Green coating	
2	Orange coating	1
3	White sticker with black printing	
4	Beige plastic	
5	Black plastic	
6	Silvery metal	6 T
7	Silvery metal	
8	Silvery metal	9-6-8
9	Silvery metal with black plating	
10	Silvery metal	
11	Soldering tin	12
12	White plastic	
13	Beige plastic	
14	Black plastic	15 11
15	Beige plastic	

TiGroup

16	White plastic	16
17	Brown capacitor	17
18	Black crystal	18
19	Silvery metal	19 E
20	PCB	20 The second se
21	Beige plastic	
22	White oil	23
23	Silvery metal	25
24	Silvery metal	21 22
25	Silvery metal	



26	Silvery metal	
27	Silvery metal	26 27 <u>28</u>
28	Silvery magnet	
29	White plastic	29 30 31
30	Beige plastic	
31	White paper	
32	White plastic	
33	Silvery magnet	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
34	Silvery metal	
35	Silvery metal	
36	Copper metal	
37	Copper metal	36
38	Brown ceramics	37 40
39	Beige plastic	³⁸ 39
40	Black plastic	
41	White plastic	
42	Black plastic	41 42
43	Black ceramics	
44	Silvery metal	44 45 ₄₃
45	Silvery metal	



46	Copper metal	46 47
47	Copper metal	
48	Silvery metal	50 49 48
49	Golden metal	
50	Black magnet	
51	Black ceramics	51
52	Brown capacitor	
53	PCB	53 ⁵²
54	Beige plastic	55
55	Black crystal	54
56	Golden metal	
57	Soldering tin	57



58	Red soft plastic	
59	Black soft plastic	5° 59 60 61
60	White plastic	
61	Black soft plastic	
62	Red soft plastic	63 ⁶²
63	Black soft plastic	
64	Beige plastic	
65	Green plastic	64 66 67
66	Gray ceramics	
67	Black crystal	⁶⁵ 68
68	Golden metal	
69	Silvery metal	
70	Copper metal foil	69 71 70 71
71	Silvery metal	
72	Transparent soft plastic	72 † 73
73	White plastic	
74	Black plastic	
75	Beige plastic	77 75
76	Black plastic	
77	Silvery capacitor	
78	Black crystal	78 76 79
79	Black crystal	



80	Black crystal	
81	Black crystal	81 80 ∣ 82
82	Brown capacitor	
83	Black resistor	83 8'4
84	Silvery metal	
85	Soldering tin	
86	Black foam	
87	PCB	86 87
88	Blue plastic	
89	White soft plastic	
90	White plastic	91
91	Black foam	
92	Green plastic	92
93	Red paper	
94	Silvery metal	93 ₉₄



95	Silvery metal	96 95
96	White plastic	
97	PCB	97
98	Black crystal	
99	Brown capacitor	98 99
100	Black resistor	100 101
101	Soldering tin	



3. Test Result(s)

3.1 Screening Test

<u>Test Method:</u> With reference to IEC 62321-3-1:2013, Screening –Lead (Pb)/ Cadmium(Cd)/ Mercury(Hg)/ Total Chromium(Cr)/ Total Bromine by X-ray fluorescence spectrometry.

Test Item	Total Chromium	Cadmium	Total Bromine	Mercury	Lead
iest item	(Cr)	(Cd)	(Br)	(Hg)	(Pb)
Screening Limit	200mg/kg	50mg/kg	200mg/kg	200mg/kg	200mg/kg
Material No.			XRF Result		
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	101455ª	BL	NA	BL	BL
7	970 ^a	BL	NA	BL	BL
8	BL	BL	NA	BL	BL
9	226ª	BL	NA	BL	481ª
10	87651ª	BL	NA	BL	BL
11	BL	BL	NA	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	NA	BL	BL
20	BL	BL	9995ª	BL	BL
21	BL	BL	BL	BL	BL
22	BL	BL	BL	BL	BL
23	BL	BL	NA	BL	BL
24	14290ª	BL	NA	BL	BL
25	551ª	BL	NA	BL	BL
26	407 ^a	BL	NA	BL	BL
27	BL	BL	NA	BL	BL
28	BL	224 ^a	NA	BL	BL
29	BL	BL	BL	BL	BL
30	BL	BL	BL	BL	BL
31	BL	BL	BL	BL	BL



32	BL	BL	BL	BL	BL
33	BL	BL	NA	BL	BL
34	BL	136ª	NA	BL	661ª
35	255ª	BL	NA	BL	BL
36	BL	BL	NA	BL	BL
37	BL	BL	NA	BL	355ª
38	BL	BL	BL	BL	BL
39	BL	BL	BL	BL	BL
40	BL	BL	BL	BL	BL
41	BL	BL	BL	BL	BL
42	BL	BL	BL	BL	BL
43	BL	BL	BL	BL	BL
44	80097ª	317 ^a	NA	BL	576ª
45	2440ª	BL	NA	BL	BL
46	BL	BL	NA	BL	BL
47	BL	99 ^a	NA	BL	BL
48	291ª	259 ^a	NA	BL	BL
49	BL	BL	NA	BL	927 ^a
50	BL	BL	BL	BL	BL
51	BL	BL	BL	BL	BL
52	BL	BL	BL	BL	BL
53	BL	BL	9877ª	BL	BL
54	BL	BL	BL	BL	BL
55	BL	BL	BL	BL	BL
56	BL	BL	NA	BL	500 ^a
57	BL	BL	NA	BL	BL
58	BL	BL	BL	BL	BL
59	BL	BL	BL	BL	BL
60	BL	BL	BL	BL	BL
61	BL	BL	BL	BL	BL
62	BL	BL	BL	BL	BL
63	BL	BL	BL	BL	BL
64	BL	BL	BL	BL	BL
65	BL	BL	BL	BL	BL
66	BL	BL	BL	BL	BL
67	BL	BL	BL	BL	BL
68	BL	BL	NA	BL	BL
69	BL	BL	NA	BL	BL
70	BL	134 ^a	NA	BL	215ª



71	BL	BL	NA	BL	BL
72	BL	BL	BL	BL	BL
73	BL	BL	BL	BL	BL
74	BL	BL	BL	BL	BL
75	BL	BL	BL	BL	BL
76	BL	BL	BL	BL	BL
77	BL	BL	BL	BL	BL
78	BL	BL	BL	BL	BL
79	BL	BL	BL	BL	BL
80	BL	BL	BL	BL	BL
81	BL	BL	BL	BL	BL
82	BL	BL	BL	BL	BL
83	BL	BL	BL	BL	BL
84	BL	BL	NA	BL	BL
85	BL	BL	NA	BL	BL
86	BL	BL	BL	BL	BL
87	BL	BL	18462ª	BL	BL
88	BL	BL	BL	BL	BL
89	BL	BL	BL	BL	BL
90	BL	BL	BL	BL	BL
91	BL	BL	BL	BL	BL
92	BL	BL	BL	BL	BL
93	BL	BL	BL	BL	BL
94	BL	BL	NA	BL	BL
95	BL	BL	NA	BL	BL
96	BL	BL	BL	BL	BL
97	BL	BL	2791ª	BL	BL
98	BL	BL	BL	BL	BL
99	BL	BL	BL	BL	BL
100	BL	BL	BL	BL	BL
101	BL	BL	NA	BL	BL

Note:

1. mg/kg = milligram per kilogram.

2. "BL" = Below Screening Limit.

3. "NA" = Not Applicable.

4. "a" denotes further confirmation test was conducted, results are listed in 3.2 and 3.3.



3.2 Heavy Metal Content

Test Method:

Lead (Pb)/Cadmium(Cd): IEC 62321-5:2013, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Mercury(Hg): IEC 62321-4:2013+AMD1:2017, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Hexavalent Chromium(Cr⁶⁺): metal: IEC 62321-7-1:2015,nonmetal:IEC 62321-7-2:2017, analysis was performed by Ultraviolet–visible spectroscopy (UV-Vis).

Test Item	Hexavalent Chromium (Cr ⁶⁺)	Hexavalent Chromium (Cr ⁶⁺)	Cadmium (Cd)	Mercury (Hg)	Lead (Pb)		
Limit	1000 mg/kg	Negative	100 mg/kg	1000 mg/kg	1000 mg/kg		
Material No.		Result					
6	NA	Negative					
7	NA	Negative					
9	NA	Negative			N.D.		
10	NA	Negative					
24	NA	Negative					
25	NA	Negative					
26	NA	Negative					
28			N.D.				
34			N.D.		N.D.		
35	NA	Negative					
37					N.D.		
44	NA	Negative	N.D.		N.D.		
45	NA	Negative					
47			N.D.				
48	NA	Negative	N.D.				
49					N.D.		
56					N.D.		
70			N.D.		N.D.		



- Note: 1. RL (Report Limit) = Pb, Cd, Hg: $10mg/kg;Cr^{6+}: nonmetal 10mg/kg, metal- Negative(<0.1\mug/cm^2).$
 - 2. mg/kg = milligram per kilogram, μ g/cm²= micrograms per square centimeter.
 - 3. N.D. = Not Detected (< RL).
 - 4. NA = Not Applicable.
 - 5. Negative = Surface of metal sample absence of Cr⁶⁺, Positive = Surface of metal sample presence of Cr⁶⁺.
 - 6. "--" denotes tested by XRF, result is listed in 3.1.
- Remark: (#1)=Exceeded upper screening limit, but if sample is Steel for machining purposes or galvanized steel, Aluminium or Copper alloy, the limit for Lead is 3,500mg/kg,4,000 mg/kg and 4,000 mg/kg respectively and further chemical test was suggested.
 - (#2)=Exceeded upper screening limit, as claimed by the declaration submitted from the applicant/supplier of applicant,/but if Lead comes from the constituent of ceramic of the electronic component(other than dielectric ceramic in capacitors) only .According to EU RoHS Directive(2011/65/EU),Lead in ceramic of this component can be exempted.
 - (#3)=Exceeded upper screening limit, as claimed by the declaration submitted from the applicant/supplier of applicant,/ but if Lead comes from the constituent of glass used in cathode ray tube/ in electrical and electronic component only. According to EU RoHS Directive (2011/65/EU), Lead in glass of this component can be exempted.
 - (#4)=As claimed by the declaration submitted from the applicant / supplier of applicant, the Lead content of the component comes from Copper alloy only. According to EU RoHS Directive (2011/65/EU), Lead in Copper alloy containing up to 4% (40,000 mg/kg) Lead by weight can be exempted.
 - (#5)=As claimed by the declaration submitted from the applicant / supplier of applicant, the Lead content of the component comes from steel for machining purposes / galvanized steel only. According to EU RoHS Directive (2011/65/EU), Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35%(3,500 mg/kg) Lead by weight can be exempted.
 - (#6)=As claimed by the declaration submitted from the applicant / supplier of applicant, the Lead content of the component comes from the constituent of glass used in fluorescent tubes only. According to EU RoHS Directive(2011/65/EU),Lead in glass of fluorescent tubes can not be exceeding 0.2%(2,000 mg/kg) by weight.
 - (#7)=As claimed by the declaration submitted from the applicant / supplier of applicant, the Lead content of the component comes from the constituent of high melting temperature type solders (i.e. Lead-based alloys containing 85% by weight or more Lead) only. According to EU RoHS Directive(2011/65/EU), Lead in high melting temperature type solders of the component can be exempted.



3.3 Polybrominated biphenyls (PBBs) & Polybrominated diphenyl ethers (PBDEs) Content

Test Method: IEC 62321-6:2015, analysis was performed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Item		Limit	RL	Result(mg/kg)			,
	Test item		(mg/kg)	20	53	87	97
	Monobromobiphenyl		5	N.D.	N.D.	N.D.	N.D.
	Dibromobiphenyl		5	N.D.	N.D.	N.D.	N.D.
	Tribromobiphenyl		5	N.D.	N.D.	N.D.	N.D.
	Tetrabromobiphenyl		5	N.D.	N.D.	N.D.	N.D.
	Pentabromobiphenyl		5	N.D.	N.D.	N.D.	N.D.
PBBs	Hexabromobiphenyl		5	N.D.	N.D.	N.D.	N.D.
	Heptabromobiphenyl		5	N.D.	N.D.	N.D.	N.D.
	Octabromobiphenyl		5	N.D.	N.D.	N.D.	N.D.
	Nonabromobiphenyl		5	N.D.	N.D.	N.D.	N.D.
	Decabromobiphenyl		5	N.D.	N.D.	N.D.	N.D.
	Sum of detected PBBs	1000		N.D.	N.D.	N.D.	N.D.
	Monobromodiphenylether		5	N.D.	N.D.	N.D.	N.D.
	Dibromodiphenylether		5	N.D.	N.D.	N.D.	N.D.
	Tribromodiphenylether		5	N.D.	N.D.	N.D.	N.D.
	Tetrabromodiphenylether		5	N.D.	N.D.	N.D.	N.D.
	Pentabromodiphenylether		5	N.D.	N.D.	N.D.	N.D.
PBDEs	Hexabromodiphenylether		5	N.D.	N.D.	N.D.	N.D.
	Heptabromodiphenylether		5	N.D.	N.D.	N.D.	N.D.
	Octabromodiphenylether		5	N.D.	N.D.	N.D.	N.D.
	Nonabromodiphenylether		5	N.D.	N.D.	N.D.	N.D.
	Decabromodiphenylether		5	N.D.	N.D.	N.D.	N.D.
	Sum of detected PBDEs	1000		N.D.	N.D.	N.D.	N.D.

Note: 1. mg/kg = milligram per kilogram.

2. RL = Report Limit

3. N.D. = Not Detected (< RL).

4. "--" = Not Applicable.



3.4 Phthalates Content

Test Method: IEC 62321-8:2017, analysis was performed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Item	Di-(2-ethylhexyl) phthalate (DEHP)	Dibutyl phthalate (DBP)	Benzylbutyl phthalate (BBP)	Diisobutyl phthalate(DIBP)		
CAS No.	117-81-7	84-74-2	85-68-7	84-69-5		
Limit	1000 mg/kg	1000 mg/kg	1000 mg/kg 1000 mg/kg			
Material No.	Result (mg/kg)					
1	N.D.	N.D.	N.D.	N.D.		
2	N.D.	N.D.	N.D.	N.D.		
3	N.D.	N.D.	N.D.	N.D.		
4	N.D.	N.D.	N.D.	N.D.		
5	N.D.	N.D.	N.D.	N.D.		
12	N.D.	N.D.	N.D.	N.D.		
13	N.D.	N.D.	N.D.	N.D.		
14	N.D.	N.D.	N.D.	N.D.		
15	N.D.	N.D.	N.D.	N.D.		
16	N.D.	N.D.	N.D.	N.D.		
20	N.D.	N.D.	N.D.	N.D.		
21	N.D.	N.D.	N.D.	N.D.		
22	N.D.	N.D.	N.D.	N.D.		
29	N.D.	N.D.	N.D.	N.D.		
30	N.D.	N.D.	N.D.	N.D.		
31	N.D.	N.D.	N.D.	N.D.		
32	N.D.	N.D.	N.D.	N.D.		
39	N.D.	N.D.	N.D.	N.D.		
40	N.D.	N.D.	N.D.	N.D.		
41	N.D.	N.D.	N.D.	N.D.		
42	N.D.	N.D.	N.D.	N.D.		
53	N.D.	N.D.	N.D.	N.D.		
54	N.D.	N.D.	N.D.	N.D.		
58	N.D.	N.D.	N.D.	N.D.		
59	N.D.	N.D.	N.D.	N.D.		
60	N.D.	N.D.	N.D.	N.D.		
61	N.D.	N.D.	N.D.	N.D.		
62	N.D.	N.D.	N.D.	N.D.		

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Tel: 86-769-22622263



63	N.D.	N.D.	N.D.	N.D.
64	N.D.	N.D.	N.D.	N.D.
65	N.D.	N.D.	N.D.	N.D.
72	N.D.	N.D.	N.D.	N.D.
73	N.D.	N.D.	N.D.	N.D.
74	N.D.	N.D.	N.D.	N.D.
75	N.D.	N.D.	N.D.	N.D.
76	N.D.	N.D.	N.D.	N.D.
86	N.D.	N.D.	N.D.	N.D.
87	N.D.	N.D.	N.D.	N.D.
88	N.D.	N.D.	N.D.	N.D.
89	N.D.	N.D.	N.D.	N.D.
90	N.D.	N.D.	N.D.	N.D.
91	N.D.	N.D.	N.D.	N.D.
92	N.D.	N.D.	N.D.	N.D.
93	N.D.	N.D.	N.D.	N.D.
96	N.D.	N.D.	N.D.	N.D.
97	N.D.	N.D.	N.D.	N.D.

Note:

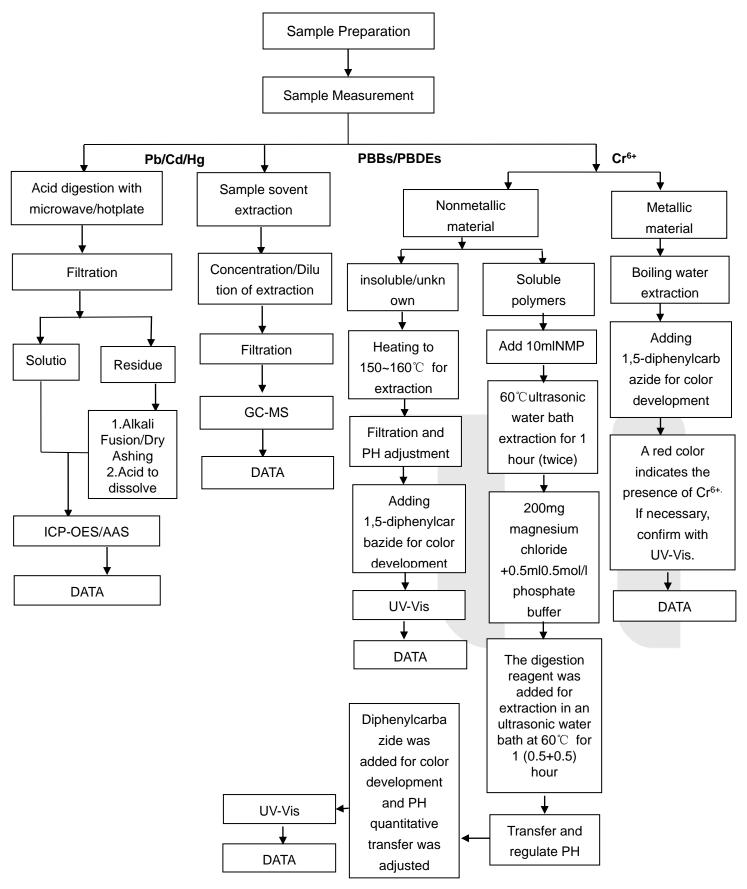
1. mg/kg = milligram per kilogram

2. Report Limit = 50mg/kg

3. N.D. = Not Detected (< RL)



RoHS Testing Flow Chart





Phthalates Testing Flow Chart

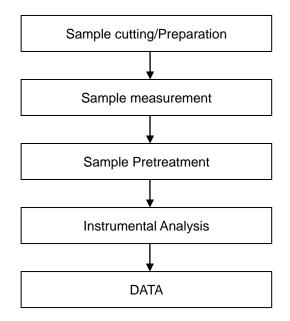
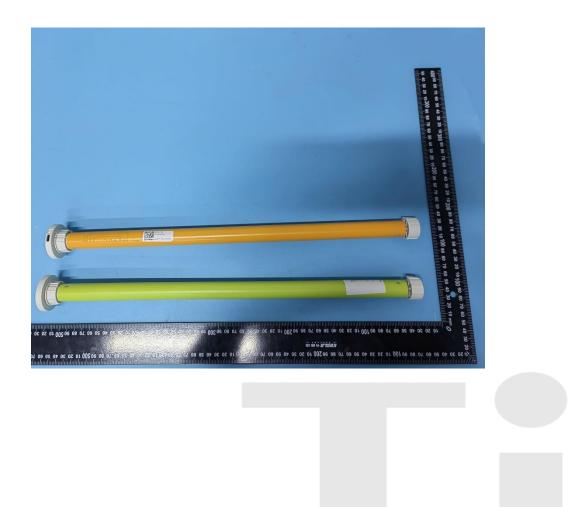






Photo of Sample





Statement

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End of Report

