

TEST REPORT

LAB NO. : (9320)356-0269 DATE : Dec 29, 2020 PAGE : 1 OF 10

APPLICANT : NEW BRIGHT INDUSTRIAL CO., LTD

9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET ROAD,

KOWLOON BAY, KLN, HK

CONTACT PERSON : /

DATE OF SUBMISSION: Dec 21, 2020

TEST PERIOD : Dec 21, 2020 to Dec 29, 2020

SAMPLE DESCRIPTION : 7185 TOY 18" R/C FULL FUNCTION SEA RAY BOAT:7185

Country of Origin: CHINA

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
Compliance Test - European Parliament and Council		
Directive 2011/65/EU on the Restriction of the Use of		
Certain Hazardous Substances in Electrical and	PASS	
Electronic Equipment (RoHS) with its Amendments		
(EU) 2015/863		

Bureau Veritas Consumer Products Services (Guangzhou) Co., Ltd

No. 183, Shinan Road, Meilin Plaza, Dongchong, Nansha, Guangzhou, Guangdong Province, China 511453

Tel: (86) 20 2290 2088 Fax: (86) 20 3490 9303 Email: BVCPS_pyinfo@cn.bureauveritas.com Website: cps.bureauveritas.com This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/and is intended for your exclusive use. Any copying or replication of this report to tor for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report ates forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



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BUREAU VERITAS CONSUMER PRODUCTS SERVICES (GUANGZHOU) CO., LTD

NINA REN SENIOR MANAGER

REMARK

FAX:

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

a) GENERAL TEL: (86)755 83437287 FAX: (86)755 83439100 b) BUSINESS SZ TEL: (86)755 21534695 FAX: (86)755 83439100 BUSINESS GZ TEL: (86) 20 87148525

EMAIL: eechemical.sc@cn.bureauveritas.com

(86) 20 87148528

WEBSITE cps.bureauveritas.cn



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Photo of the Submitted Sample





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TEST RESULT

Compliance Test - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments (EU) 2015/863

Test Method : See Appendix.

Test Item(s)	Item / Component Description(s) + Location(s)	Style(s)
1	White plastic with multicolor print and adhesive (sticker)	-
2	Blue plastic (body)	-
3	White plastic with multicolor coating (body)	-
4	Grey plastic (rail)	-
5	Grey plastic (knob)	-
6	Black printed silvery plastic with adhesive (sticker)	-
7	Black plastic (slider switch)	-
8	Light grey plastic (knob)	-
9	White soft plastic (stopper)	-
10	Black plastic (aerial)	-
11	Black plastic	-
12	White soft plastic (propeller)	-
13	Black plastic (case, remote control)	-
14	Grey plastic (joystick, remote control)	-
15	Translucent yellow plastic (tube, remote control)	-
16	Black soft plastic (wire jacket, remote control)	-
17	Black plastic (battery cover, remote control)	-
18	Lgiht grey plastic (block)	-
19	Brown soft plastic (wire jacket)	-
20	Blue soft plastic (wire jacket)	-
21	White plastic (wire connector)	-
22	Red soft plastic (wire jacket)	-
23	White soft plastic (wire jacket)	-
24	Black plastic (base, inductor, balck of PCB)	-
25	Green PCB	-
26	Black body (transistor, PCB)	-
27	Black plastic (base, PCB)	=
28	Black body (IC, PCB)	=
29	Beige plastic (connector)	=
30	Black plastic	=
31	Red plastic	-
32	Red plastic (slider switch)	=
33	Brown plastic (plate, slider switch)	=
34	Black plastic (battery case)	-
35	Black plastic (PCB cover)	-
36	Black plastic (motor outer cover)	-
37	White plastic (gear)	-
38	Black soft plastic (ring/ gasket)	-
39	Light beige plastic (shaft)	-
40	Deep beige plastic (endbell, motor)	-
41	Translucent beige plastic (copper brush base, motor)	-
42	Translucent plastic (commutator, motor)	-



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43	White plastic (insulator, motor)	-
44	White plastic (tube, motor)	-
45	Translucent plastic (tube)	-
46	Black plastic (case, tack switch)	-
47	Green PCB (remote control)	-
48	Black body (IC, remote control PCB)	-
49	Transparent plastic (washer)	-
50	Green pcb (motor)	-
51	Green pcb (big pcb)	-
52	Silvery metal (shaft)	-
53	Silvery solder (motor pcb)	-
54	Coppery metal (wire)	-
55	Silvery plated golden metal (ring, wire terminal)	-
56	Silvery plated coppery metal (wire)	_
57	Silvery plated coppery metal (wire terminal)	_
58	Silvery metal (battery connector)	_
59	Red plated coppery metal (coil, inductor, PCB)	_
60	Multicolor printed green body (inductor, PCB)	_
61	Silvery plated golden metal (pin, connector, PCB)	_
62	Silvery solder (PCB)	_
63	Black/ white body (resistor, PCB)	_
64	Black printed silvery body (capacitor, PCB)	_
65	Brown body (capacitor, PCB)	_
66	Black/ white body (diode, PCB)	_
67	White body (capacitor, PCB)	_
68	Silvery metal (shaft)	_
69	Silvery metal (ring)	_
70	Coppery metal (copper brush, motor)	_
71	Black body (copper brush, motor)	_
72	Black coated silvery metal (case, slider switch)	_
73	Dull silvery metal (spring, slider switch)	_
74	Silvery plated golden metal (connector, slider switch)	_
75	Silvery plated golden metal (pin, slider switch)	
76	Silvery plated coppery metal (battery connector)	_
77	Silvery metal (pin)	_
78	Silvery metal (shaft, motor)	
79	Black core (ring, motor)	-
80	Silvery metal (plate, motor)	-
81	Coppery metal (coil, motor)	-
82	Coppery metal (connector, motor)	-
83	White paper (insulator, motor)	-
84	Dark coppery metal (coil, motor)	-
85	Red paper (ring, motor)	
86		-
86	Silvery metal (case, tack switch)	-
88	Silvery metal (plate, tack switch)	-
88 89	Silvery plated golden metal (pin, tack switch)	-
	Silvery solder (PCB)	-
90	Silvery body (crystal, PCB)	-
91	Black body (jeep, PCB)	-
92	Silvery metal (case, motor)	-
93	Silvery metal (case, big motor)	-



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94	Dull silvery metal (bearing, motor)	-
95	Black magnet (motor)	-
96	Dull silvery metal (spring, motor)	-
97	Black magnet (big motor)	-
98	Dull silvery metal (spring, big motor)	-
99	Silvery solder (motor pcb)	-
100	Coppery metal (bearing, big motor)	-
101	Golden metal (brush, big motor)	=
102	Silvery metal (screw)	-
103	Silvery metal (adjusted spring)	-
104	Silvery metal (screw)	-
105	Silvery metal (screw)	-
106	Silvery metal (screw)	-
107	Silvery metal (wire)	-

See Analytes and their corresponding Maximum Allowable Limit in Appendix

-	Result									
Parameter	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs & PBDEs	DBP	BBP	DEHP	DIBP	Conclusion
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item	-	-	-	-	-	-	-	-	-	-
1	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
2	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
3	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
4	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
5	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
6	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
7	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
8	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
9	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
10	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
11	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
12	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
13	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
14	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
15	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
16	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
17	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
18	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
19	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
20	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
21	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
22	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
23	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
24	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
25	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
26	BL	BL	BL	BL	ND*	BL	BL	BL	BL	PASS
27	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
28	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
29	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS



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-	- Result									
Parameter	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs & PBDEs	DBP	BBP	DEHP	DIBP	Conclusion
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item	-	-	-	-	-	-	-	-	-	-
30	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
31	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
32	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
33	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
34	BL	BL	BL	BL	ND*	BL	BL	BL	BL	PASS
35	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
36	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
37	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
38	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
39	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
40	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
41	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
42	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
43	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
44	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
45	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
46	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
47	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
48	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
49	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS
50	BL	BL	BL	BL	ND*	BL	BL	BL	BL	PASS
51	BL	BL	BL	BL	ND*	BL	BL	BL	BL	PASS
52	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS
53	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
54	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
55	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
56 57	BL	BL BL	BL	BL	NA	NA	NA	NA	NA	PASS
58	BL	BL	BL	BL	NA NA	NA NA	NA NA	NA NA	NA NA	PASS
59	BL BL	BL	BL BL	BL BL	NA NA	NA NA	NA NA	NA NA	NA NA	PASS PASS
60	BL	BL	BL	BL	BL	NA NA	NA NA	NA NA	NA NA	PASS
61	BL	BL	BL	BL	NA	NA NA	NA NA	NA NA	NA NA	PASS
62	BL	BL	BL	BL	NA NA	NA NA	NA NA	NA NA	NA NA	PASS
63	BL	BL	BL	BL	BL	NA NA	NA NA	NA NA	NA NA	PASS
64	BL	BL	BL	BL	NA NA	NA NA	NA NA	NA NA	NA NA	PASS
65	BL	BL	BL	BL	BL	NA NA	NA NA	NA NA	NA NA	PASS
66	BL	BL	BL	BL	BL	NA NA	NA NA	NA NA	NA NA	PASS
67	BL	BL	BL	BL	BL	NA	NA	NA	NA	PASS
68	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS
69	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS
70	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
71	BL	BL	BL	BL	BL	NA	NA	NA	NA	PASS
72	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS
73	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
74	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
75	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS



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-	Result									
Parameter	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs & PBDEs	DBP	BBP	DEHP	DIBP	Conclusion
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item	-	-	1	-	-	1	-	•	1	-
76	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
77	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
78	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
79	BL	BL	BL	BL	BL	NA	NA	NA	NA	PASS
80	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS
81	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
82	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
83	BL	BL	BL	BL	BL	NA	NA	NA	NA	PASS
84	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
85	BL	BL	BL	BL	BL	NA	NA	NA	NA	PASS
86	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
87	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS
88	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
89	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
90	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
91	BL	BL	BL	BL	BL	NA	NA	NA	NA	PASS
92	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
93	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
94	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS
95	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
96	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS
97	BL	BL	BL	ND*	NA	NA	NA	NA	NA	PASS
98	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS
99	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
100	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS
101	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
102	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS
103	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS
104	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS
105	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS
106	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS
107	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS

Note / Key:

ND = Not detected ">" = Greater than "<" = Less than BL = Below Limit NA = Not applicable EX= Exempted NR = Not requested mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Detection Limit: See Appendix.

Remark:

- The testing approach is listed in table of Appendix.
- * denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, non-uniformity composition, surface flatness.
- Only selected example(s) is (are) indicated on the photograph(s) in Comment.



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- According to European Parliament and Council Directive 2011/65/EU, Article 5 "Adaptation of the Annexes to scientific and technical progress", exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.
- The above result(s) of 1, 3, 7-8, 10-17, 19-44, 46-48, 52, 54-61, 63-98, 103-107 is/are transferred from (9320)213-0018 dated on Aug 12, 2020.
- The above result(s) of 62 is/are transferred from (9320)228-0072 dated on Aug 21, 2020.



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APPENDIX

List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit [Compliance Test for European Parliament and Council

			Detection I				
No.	Name of Analyte(s)	X-ra	y fluorescence (X	RF) ^[a]		Maximum Allowable Limit (mg/kg	
110.		Plastic	Metallic / glass / ceramic	Others	Wet Chemistry	Maximum Anowable Limit (mg/kg)	
1	Lead (Pb)	100	200	200	10 ^[b]	1000	
2	Cadmium (Cd)	50	50	50	10 ^[b]	100	
3	Mercury (Hg)	100	200	200	10 ^[c]	1000	
4	Chromium (Cr)	100	200	200	NA	NA	
5	Chromium VI (Cr VI)	NA	NA	NA	3 ^[g, h] / 10 ^[d] / See ^[e, i]	1000 / Negative ^[i]	
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 ^[f]	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)	NA	NA	NA	Each 50 ^[f]	Sum 1000	

- Diisobutyl phthalate (DIBP)

 NA = Not applicable IEC = International Electrotechnical Commission
- [a] Test method with reference to International Standard IEC 62321-3-1: 2013.
- Test method with reference to International Standard IEC 62321-5: 2013.
- [c] Test method with reference to International Standard IEC 62321-4: 2013+AMD1: 2017 CSV.
- Polymers and Electronics Test method with reference to International Standard IEC 62321-7-2: 2017.
- [e] Metal Test method with reference to International Standard IEC 62321-7-1: 2015.
- Test method with reference to International Standard IEC 62321-6: 2015.
- [g] Leather Test method International Standard ISO 17075: 2017.

Octabromodiphenyl ether (OctaBDE)
 Nonabromodiphenyl ether (NonaBDE)
 Decabromodiphenyl ether (DecaBDE)

Di-2-ethylhexyl phthalate (DEHP)

Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP)

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Other Than Metal, Leather, Polymers and Electronics - Test method with reference to International Standard ISO 17075: 2007.

NA

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).

NA

NA

Test method with reference International Standard IEC 62321-8: 2017.

$Testing\ Approach\ [\ Compliance\ Test\ for\ European\ Parliament\ and\ Council\ Directive\ 2011/65/EU\]:$

The testing approach was with reference to the following document(s).

- 1 International Standards IEC 62321-1: 2013 and IEC 62321-2: 2013
- 2 "RoHS Enforcement Guidance Document Version 1" by EU RoHS Enforcement Authorities Informal Network. (May 2006)
- $3 \qquad \text{``RoHS Regulations Government Guidance Notes''} \ by \ United \ Kingdom \ Department \ for \ Business \ Innovation \ \& \ Skills. \ (February \ 2011)$
- 4 "Final Report to RoHS substances (Hg, Pb, Cr(VI), Cd, PBB and PBDE) in electrical and electronic equipment in Belgium" by Belgium Federal Public Service Health, Food Chain Safety and Environment. (November 2005)

Each 500[j]

Each 1000