



Test Report

Report No: BSXD2004117046026CR

Date: Apr.30, 2020

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Applicant : NINGBO HIGHLITE ILLUMINATION CO., LTD.
Address : Room 2202, 22F, Bank of China Mansion, Commercial Center NO. 318, He Yuan Road, Yinzhou Dist., Ningbo, 315000, China

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

Sample Name : PRO180LIGHT
Trade Name : NEBO
Sample Model : 6079, IP6079, NE0015, TU312, TU918, TU918K, TU919, TU919K, TU312, TU312, SKE-ZAP-0001, NE0001, NEB-FLT-0018, NEB-FLT-0019, NEB-FLT-0020, NEB-FLT-0021, NEB-FLT-0022, NE0018, NE0019, NE0020, NE0021, NE0022
Sample Received Date : Apr.28, 2020
Testing Period : Apr.28, 2020 To Apr.30, 2020
Test Requested : Selected test (s) in the selected parts as requested by client with the RoHS 2 Directive 2011/65/EU Annex II (EU) 2015/863 as last amended by Directive (EU) 2017/2102.
Test Method : Please refer to next page(s).
Test Result : Please refer to next page(s).

Signed for and on behalf of

Tony Qian/ Approved Signatory

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Test Content:

Test Item(s)	Test Method	Reference	Unit	Limit	MDL
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES	mg/kg	100	2
Lead(Pb)	IEC 62321-5:2013	ICP-OES	mg/kg	1000	2
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	mg/kg	1000	2
Hexavalent Chromium(CrVI) (Metal)	IEC 62321-7-1:2015	UV-Vis	µg/cm ²	0.13	0.1
Hexavalent Chromium(CrVI) (Nonmetal)	IEC 62321-7-2:2017	UV-Vis	mg/kg	1000	8
PBBs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
PBDEs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
Dibutyl Phthalate(DBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Di-(2-ethylhexyl) Phthalate(DEHP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30

PBBs		PBDEs	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

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Sample Description:

No.	Description	Name
1	Metal	USB Interface Metal
2	Plastic	White Plastic
3	Plastic	Black Terminal
4	Plastic	Black Outer Skin
5	Plastic	Black Line Skin
6	Plastic	Red Line Skin
7	Metal	Wire Core
8	Metal	Black Metal Shell
9	Plastic	Transparent Plastic
10	Rubber	Black Rubber
11	Battery	Battery
12	PCB	PCB
13	Resistance	Resistance
14	Capacitance	Capacitance
15	IC	IC

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No.	Description	Name
16	Diode	Diode
17	Transistor	Transistor
18	LED	Led Light
19	Metal	Spring
20	Plastic	Blue Line Skin
21	Metal	Solder
22	Plastic	Black Button
23	Metal	Copper Metal
24	Plastic	Yellow Plastic
25	Plastic	Switch

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Test Result:

Test Item(s)	No.1	No.2	No.3	No.4	No.5
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	N.D.	N.D.	N.D.	N.D.
PBDEs	--	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	--	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	--	N.D.	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	--	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	--	N.D.	N.D.	N.D.	N.D.
Test Item(s)	No.6	No.7	No.8	No.9	No.10
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	--	N.D.	N.D.	N.D.
PBDEs	N.D.	--	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	--	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	--	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	--	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	--	N.D.	N.D.	N.D.

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Test Item(s)	No.11	No.12	No.13	No.14	No.15
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	N.D.	N.D.
PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Test Item(s)	No.16	No.17	No.18	No.19	No.20
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	--	N.D.
PBDEs	N.D.	N.D.	N.D.	--	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	--	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	--	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	--	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	--	N.D.

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Test Item(s)	No.21	No.22	No.23	No.24	No.25
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	N.D.	--	N.D.	N.D.
PBDEs	--	N.D.	--	N.D.	N.D.
Dibutyl Phthalate (DBP)	--	N.D.	--	N.D.	N.D.
Butyl benzyl phthalate (BBP)	--	N.D.	--	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	--	N.D.	--	N.D.	N.D.
Diisobutyl phthalate (DIBP)	--	N.D.	--	N.D.	N.D.

- Note:**
1. mg/kg= ppm
 2. N.D.= Not Detected(<MDL)
 3. MDL = Method Detection Limit
 4. -- = No Testing
 5. when Cr(VI) in a sample is detected below the $0.10 \mu\text{g}/\text{cm}^2$ LOQ (limit of quantification), the sample is considered to be negative for Cr(VI). Since Cr(VI) may not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between $0.10 \mu\text{g}/\text{cm}^2$ and $0.13 \mu\text{g}/\text{cm}^2$ has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr(VI). When Cr(VI) is detected above $0.13 \mu\text{g}/\text{cm}^2$, the sample is considered to be positive for the presence of Cr(VI) in the coating layer. unavoidable coating variations may influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

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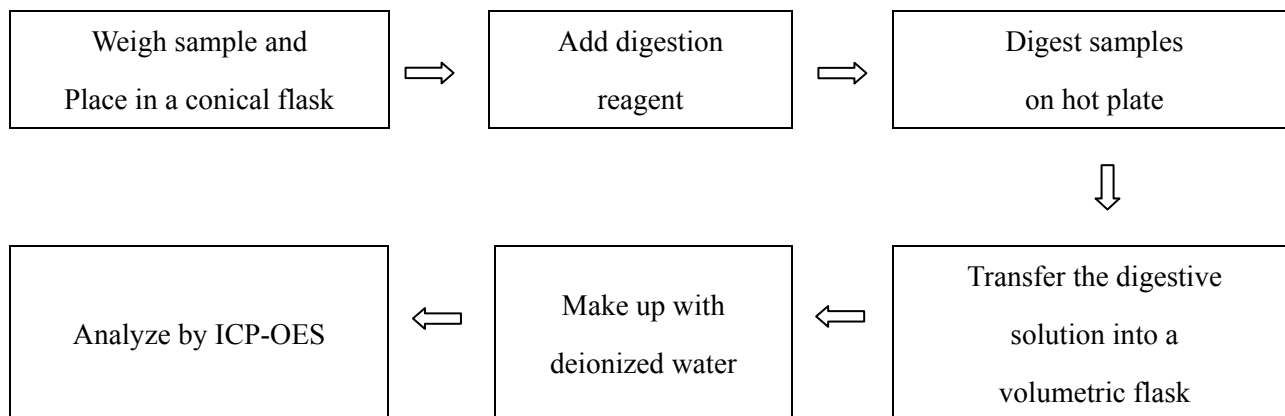
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Annex:

A001,A007,A101,A102,J005,J006,J009,J010,J011,J013, J015,J016,
J018,J019,J020,J021,J022,J023,J025,J026,J028,J029,J030,J077,
71007,72007,73007,74007,76007,51007,52007,54007,56007,59007,
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B077-NC,B078,B083,B088,B201,G005,G008,G009,G012,G016,G017,
G020,G021,G023,G025,G026,G028,G030,G031,G033,G035,G036,
G037,G038,G039,G050,G051,G052,G053,G055,G056,G057,G058,
G059,G060,C211,C212,C215,C216,C218,26016,28016,18016,15016,J027

Test Process:

1. Test for Cd/Pb Content



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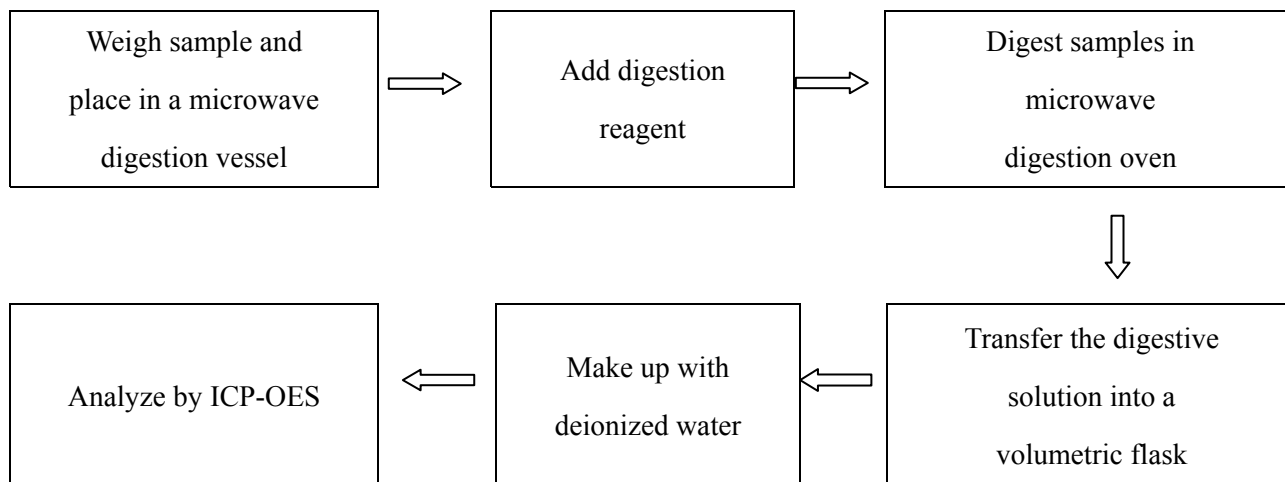
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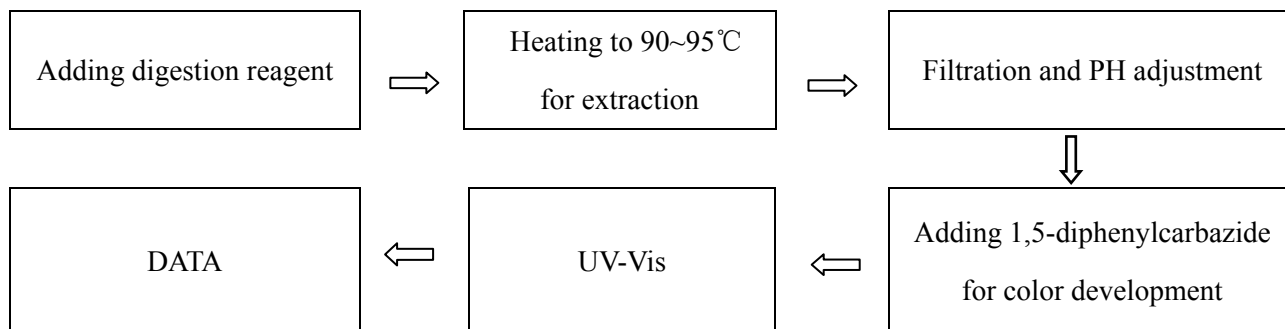
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2. Test for Hg Content

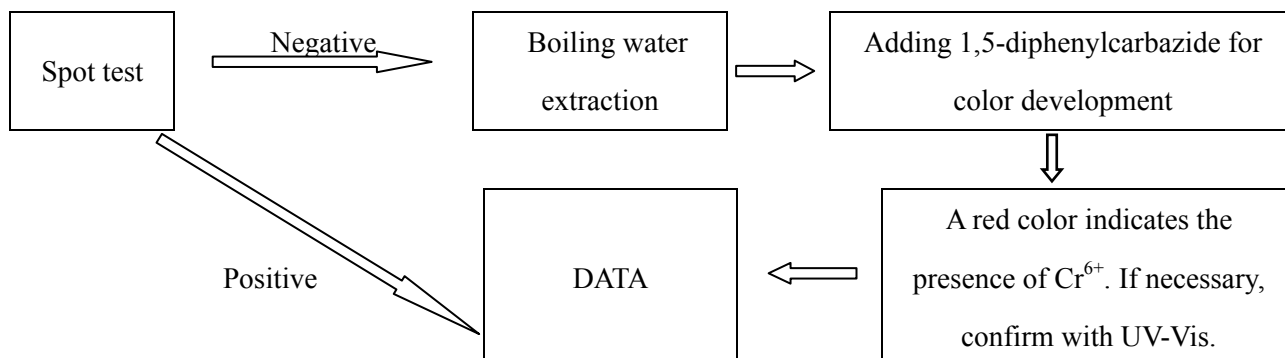


3. Test for Chromium (VI) Content

Nonmetal material



Metal material



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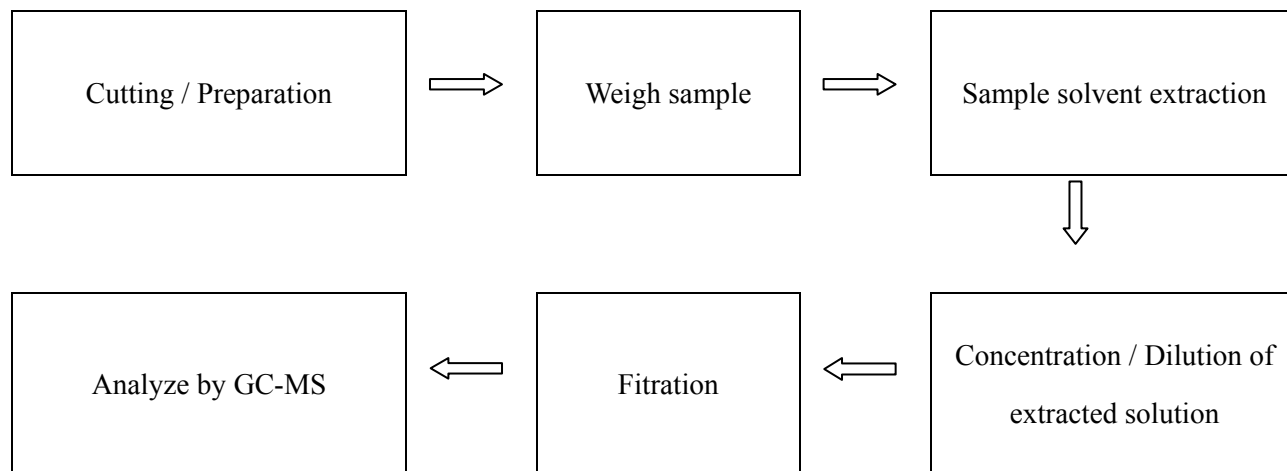
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4. Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content



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Sample Photo:



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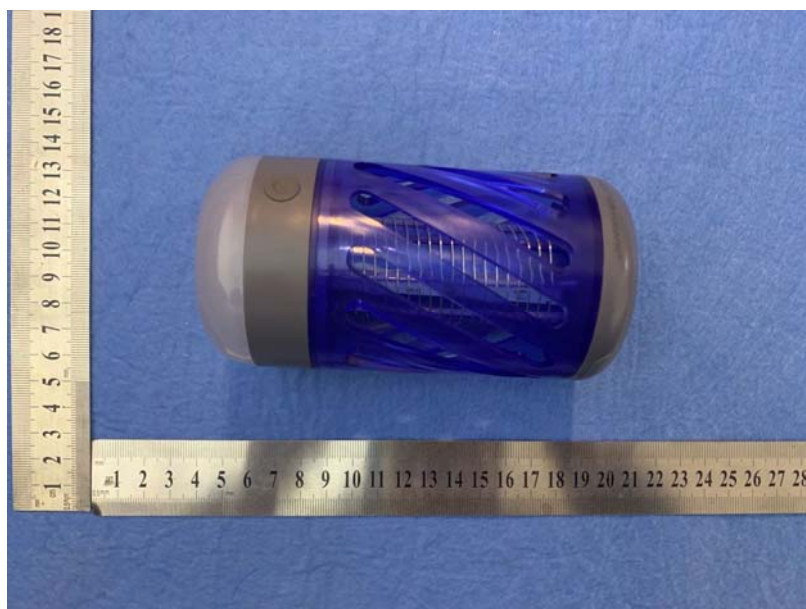
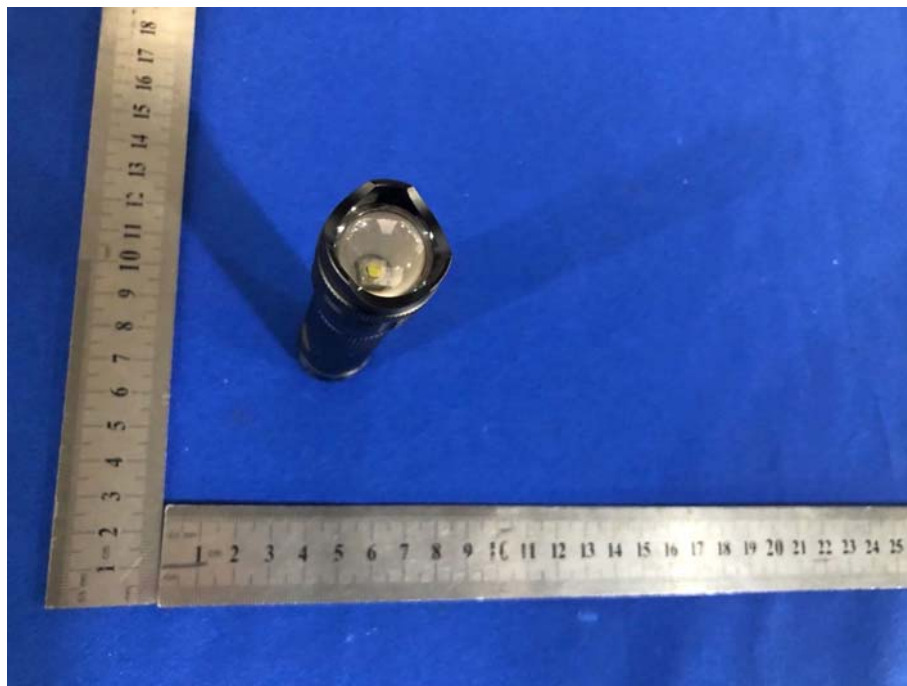


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