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TOYO LED ELECTRONICS LIMITED

UNIT 10-11, 19/F, METRO LOFT, 38 KWAI HEI STREET, KWAI CHUNG, NEW TERRITORIES, HONG KONG

The following sample(s) was/were submitted and identified on behalf of the clients as: LED DISPLAY, SMD DISPLAY, THROUGH HOLE LED, SMD LED, TOP VIEW SMD LED (PLCC), INFRARED & PHOTOTRANSISTOR

SGS Job No.: 4233829 - HK

Item No Given by Client: TY-50UR4W30-5000-T8; TY-50UA3W30-5000-T8; TY-50UV4W15-2500Z;

TY-50BG4W15-25000; TY-302USR1TD50-700B8-T2; TY-304YG1TD40-30B4-T9;

TY-30PT4BK-4H20; TY-30PT4BK-4H20; TY-30IR4W30-850-30H21;

TY-30PW130-8000(16); TY-50UR3W30-2700-T8; TY-30WH5W30-10000;

TY-50WH5W30-10000; CE30523-G-UR3-8-W; E30392-I-UR3-0-W;

E40392-I-UA3-0-W(18.3); E20501-L6-WH-0-WF(3.0); SD10391-G-UG4-0-W; H-SD10561-G-BL-8-W; TY-Y0603RGB3; TY-Y0603PW; TY-Y0603BL1(0.60);

TY-Y0805UR1-H(0.8); TY-Y1206PG1(1.10); TY-YSV0602UG1(1.10);

TY-YSV0802UY1(0.96); TY-YSV1204UA1(1.50); TY-AWSV020CW1(0.60);

TY-AWSV020RGB3(1.10); TY-AO5050RGB3-R13-1.5W; TY-AO3014PW1-0.2W;

TY-3528PW; TY-3528BL1-250; TY-3528PG1-900; TY-3528UR1-600;

TY-3528UY1-500; TY-5050PW; TY-5050RGB3

Date of Sample Received: 27 Nov 2018

Testing Period: 27 Nov 2018 - 25 Jan 2019

Test Requested : Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Cadmium,

Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs).

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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Signed for and on behalf of SGS Hong Kong Limited.

Lam Ka Yung, Allen Chemist

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Test Results:

Test Part Description:

Specimen No.	SGS Sample ID	Description
1	HKG18-009431.001	Transparent plastic
2	HKG18-009431.002	Silvery metal pin
3	HKG18-009431.003	Silvery metal
4	HKG18-009431.004	Transparent plastic
5	HKG18-009431.005	Silvery metal pin
6	HKG18-009431.006	Silvery metal
7	HKG18-009431.007	Transparent plastic
8	HKG18-009431.008	Silvery metal pin
9	HKG18-009431.009	Silvery metal
10	HKG18-009431.010	Transparent plastic
11	HKG18-009431.011	Silvery metal pin
12	HKG18-009431.012	Silvery metal
13	HKG18-009431.013	Red transparent plastic
14	HKG18-009431.014	Silvery metal pin
15	HKG18-009431.015	Silvery metal
16	HKG18-009431.016	Green transparent plastic
17	HKG18-009431.017	Silvery metal pin
18	HKG18-009431.018	Silvery metal
19	HKG18-009431.019	Transparent plastic
20	HKG18-009431.020	Silvery metal pin
21	HKG18-009431.021	Silvery metal
22	HKG18-009431.022	Transparent plastic
23	HKG18-009431.023	Silvery metal pin
24	HKG18-009431.024	Silvery metal
25	HKG18-009431.025	Transparent plastic
26	HKG18-009431.026	Silvery metal pin
27	HKG18-009431.027	Silvery metal
28	HKG18-009431.028	Transparent plastic
29	HKG18-009431.029	Silvery metal pin
30	HKG18-009431.030	Silvery metal
31	HKG18-009431.031	Transparent plastic
32	HKG18-009431.032	Silvery metal pin
33	HKG18-009431.033	Silvery metal
34	HKG18-009431.034	Transparent plastic
35	HKG18-009431.035	Silvery metal pin

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36	HKG18-009431.036	Silvery metal		
37	HKG18-009431.037	White body		
38	HKG18-009431.038	Yellow body		
39	HKG18-009431.039	White body		
40	HKG18-009431.040	Black paste(semi-product)		
41	HKG18-009431.046	White plastic w/ black printing	ng	
42	HKG18-009431.047	Transparent solid		
43	HKG18-009431.048	Black PCB		
44	HKG18-009431.049	Silvery metal pin		
45	HKG18-009431.050	Black paste(semi-product)		
46	HKG18-009431.056	Black paste (semi-product)		
47	HKG18-009431.063	White plastic w/ black printing	ng	
48	HKG18-009431.064	Transparent solid		
49	HKG18-009431.065	Black PCB		
50	HKG18-009431.066	Silvery metal pin		
51	HKG18-009431.067	Transparent plastic sheet w	/ black&yellow surface	
52	HKG18-009431.068	White plastic w/ black printing	ng	
53	HKG18-009431.069	White PCB w/ black surface		
54	HKG18-009431.070	Transparent solid		
55	HKG18-009431.071	Black paste(semi-product)		
56	HKG18-009431.077	White plastic w/ grey surface	е	
57	HKG18-009431.078	Green PCB		
58	HKG18-009431.079	Transparent solid		
59	HKG18-009431.080	White body		
60	HKG18-009431.081	White body		
61	HKG18-009431.082	White body		
62	HKG18-009431.083	White body		
63	HKG18-009431.084	White body		
64	HKG18-009431.085	White body w/ green surface	e & silvery edge	
65	HKG18-009431.086	White body w/ green surface	e & silvery edge	
66	HKG18-009431.087	White plastic w/ silvery edge)	
67	HKG18-009431.088	White body w/ yellow surface	e & silvery edge	
68	HKG18-009431.089	White body w/ yellow surface	e & silvery edge	
69	HKG18-009431.090	White plastic w/ silvery edge)	
70	HKG18-009431.091	White plastic w/ silvery edge)	
71	HKG18-009431.092	White plastic w/ silvery edge)	
72	HKG18-009431.093	White plastic w/ silvery edge)	
73	HKG18-009431.094	White plastic w/ yellow surfa	ace & silvery edge	
74	HKG18-009431.095	White plastic w/ Transparen	t plastic & silvery edge	
75	HKG18-009431.096	Black paste(semi-product)		



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76	HKG18-009431.097	White plastic w/ black printing	ng (shell)	
77	HKG18-009431.098	Transparent solid		
78	HKG18-009431.099	Black PCB		
79	HKG18-009431.100	Silvery metal pin		
80	HKG18-009431.111	White plastic w/ black printing	ng (shell)	
81	HKG18-009431.112	Transparent solid		
82	HKG18-009431.113	Black PCB		
83	HKG18-009431.114	Silvery metal pin		
84	HKG18-009431.115	Black paste (semi-product)		

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>004</u>	<u>007</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND

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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>004</u>	<u>007</u>
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl Phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND
Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate (DIBP)	1,000	mg/kg	50	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>013</u>	<u>016</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	- 5	ND	ND	ND
Dibromobiphenyl		mg/kg	5	ND	ND	ND
Tribromobiphenyl	- -	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	- -	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	- -	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	- -	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	_	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Dibutyl Phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND
Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>013</u>	<u>016</u>
Diisobutyl Phthalate (DIBP)	1,000	mg/kg	50	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>019</u>	<u>022</u>	<u>025</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl Phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND
Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate (DIBP)	1,000	mg/kg	50	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>028</u>	<u>031</u>	<u>034</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND

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Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>028</u>	<u>031</u>	<u>034</u>
Monobromobiphenyl	<u> </u>	mg/kg	5	ND	ND	ND
Dibromobiphenyl	_	mg/kg	5	ND	ND	ND
Tribromobiphenyl	_	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	_	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	_	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	_	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	_	mg/kg	5	ND	ND	ND
Octabromobiphenyl	_	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	_	mg/kg	5	ND	ND	ND
	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	<u>-</u>	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl Phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND
Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate (DIBP)	1,000	mg/kg	50	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>037</u>	<u>038</u>	<u>039</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	_	ND	ND	ND
Monobromobiphenyl	, -	mg/kg	5	ND	ND	ND
Dibromobiphenyl	_	mg/kg	5	ND	ND	ND
Tribromobiphenyl	_	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	_	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>037</u>	<i>038</i>	<u>039</u>
Decabromobiphenyl	_	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	_	ND	ND	ND
Monobromodiphenyl ether	- -	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl Phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND
Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate (DIBP)	1,000	mg/kg	50	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>040</u>	<u>046</u>	<u>047</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>040</u>	<u>046</u>	<u>047</u>
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl Phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND
Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate (DIBP)	1,000	mg/kg	50	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>048</u>	<u>050</u>	<u>056</u>
Cadmium (Cd)	100	mg/kg	2	MD	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl Phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND
Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate (DIBP)	1,000	mg/kg	50	ND	ND	ND



Test Report	No. HKGEC180094	13103	Date: 01	Feb 2019	Pa	age 11 of 64
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>063</u>	<u>064</u>	<u>065</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl Phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND
Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate (DIBP)	1,000	mg/kg	50	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>067</u>	<u>068</u>	<u>069</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	22
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND



Limit Unit MDL Q67 Q68 Q69	Test Report	No. HKGEC180094	13103	Date: 01	Feb 2019	Page 12 of 64	
Hexabromobiphenyl	Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>067</u>	<u>068</u>	<u>069</u>
Hexabromobiphenyl	Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl - mg/kg 5 ND ND ND Nonabromobiphenyl - mg/kg 5 ND ND ND Decabromobiphenyl - mg/kg 5 ND ND ND Sum of PBDEs 1,000 mg/kg 5 ND ND ND Monobromodiphenyl ether - mg/kg 5 ND ND ND Dibromodiphenyl ether - mg/kg 5 ND ND ND Tetrabromodiphenyl ether - mg/kg 5 ND ND ND Pentabromodiphenyl ether - mg/kg 5 ND ND ND Hestabromodiphenyl ether - mg/kg 5 ND ND ND Hebabromodiphenyl ether - mg/kg 5 ND ND ND Octabromodiphenyl ether - mg/kg 5 ND ND ND Decabromodiphenyl ether -		-		5	ND	ND	ND
Nonabromobiphenyl	Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Monobromodiphenyl ether	Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Tribromodiphenyl ether - mg/kg 5 ND ND ND Tetrabromodiphenyl ether - mg/kg 5 ND ND ND Pentabromodiphenyl ether - mg/kg 5 ND ND ND Hexabromodiphenyl ether - mg/kg 5 ND ND ND Heptabromodiphenyl ether - mg/kg 5 ND ND ND Nonabromodiphenyl ether - mg/kg 5 ND ND ND Nonabromodiphenyl ether - mg/kg 5 ND ND ND Dicabromodiphenyl ether - mg/kg 5 ND ND ND Decabromodiphenyl ether - mg/kg 5 ND ND ND Disabyl Phthalate (DBP) 1,000 mg/kg 5 ND ND ND Benzylbutyl Phthalate (DBP) 1,000 mg/kg 50 ND ND ND Diisobutyl Phtha	Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether - mg/kg 5 ND ND ND Nonabromodiphenyl ether - mg/kg 5 ND ND ND Decabromodiphenyl ether - mg/kg 5 ND ND ND Dibutyl Phthalate (DBP) 1,000 mg/kg 50 ND ND ND Benzylbutyl Phthalate (BBP) 1,000 mg/kg 50 ND ND ND Bis-(2-ethylhexyl) Phthalate (DEHP) 1,000 mg/kg 50 ND ND ND Diisobutyl Phthalate (DIBP) 1,000 mg/kg 50 ND ND ND Diisobutyl Phthalate (DIBP) 1,000 mg/kg 50 ND ND ND Diisobutyl Phthalate (DIBP) 1,000 mg/kg 50 ND ND ND Diisobutyl Phthalate (DIBP) 1,000 mg/kg 50 ND ND ND Diisobutyl Phthalate (DIBP) 1,000 mg/kg 2 ND ND	Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether - mg/kg 5 ND ND ND Decabromodiphenyl ether - mg/kg 5 ND ND ND Dibutyl Phthalate (DBP) 1,000 mg/kg 50 ND ND ND Bis-(2-ethylhexyl) Phthalate (DEHP) 1,000 mg/kg 50 ND ND ND Diisobutyl Phthalate (DIBP) 1,000 mg/kg 50 ND ND ND Diisobutyl Phthalate (DIBP) 1,000 mg/kg 50 ND ND ND Diisobutyl Phthalate (DIBP) 1,000 mg/kg 50 ND ND ND Diisobutyl Phthalate (DIBP) 1,000 mg/kg 50 ND ND ND Diisobutyl Phthalate (DIBP) 1,000 mg/kg 50 ND ND ND Diisobutyl Phthalate (DIBP) 1,000 mg/kg 2 ND ND ND Lead (Pb) 1,000 mg/kg 2 ND ND ND <td>Heptabromodiphenyl ether</td> <td>-</td> <td>mg/kg</td> <td>5</td> <td>ND</td> <td>ND</td> <td>ND</td>	Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether - mg/kg 5 ND ND ND Dibutyl Phthalate (DBP) 1,000 mg/kg 50 ND ND ND Benzylbutyl Phthalate (BBP) 1,000 mg/kg 50 ND ND ND Bis-(2-ethylhexyl) Phthalate (DEHP) 1,000 mg/kg 50 ND ND ND Diisobutyl Phthalate (DIBP) 1,000 mg/kg 50 ND ND ND Diisobutyl Phthalate (DIBP) 1,000 mg/kg 50 ND ND ND Diisobutyl Phthalate (DIBP) 1,000 mg/kg 50 ND ND ND Diisobutyl Phthalate (DIBP) 1,000 mg/kg 50 ND ND ND Diisobutyl Phthalate (DIBP) 1,000 mg/kg 2 ND ND ND Diisobutyl Phthalate (DIBP) 1,000 mg/kg 2 ND ND ND Lead (Pb) 1,000 mg/kg 2 ND ND <t< td=""><td>Octabromodiphenyl ether</td><td>-</td><td>mg/kg</td><td>5</td><td>ND</td><td>ND</td><td>ND</td></t<>	Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl Phthalate (DBP) 1,000 mg/kg 50 ND ND ND Benzylbutyl Phthalate (BBP) 1,000 mg/kg 50 ND ND ND Bis-(2-ethylhexyl) Phthalate (DEHP) 1,000 mg/kg 50 ND ND ND Diisobutyl Phthalate (DIBP) 1,000 mg/kg 50 ND ND ND Test Item(s) Limit Unit MDL OTO ND 070 OTT 077 077 Cadmium (Cd) 100 mg/kg 2 ND ND ND Lead (Pb) 1,000 mg/kg 2 ND ND ND Mercury (Hg) 1,000 mg/kg 2 ND ND ND Hexavalent Chromium (CrVI) 1,000 mg/kg 8 ND ND ND Sum of PBBs 1,000 mg/kg - ND ND ND Monobromobiphenyl - mg/kg 5 ND ND ND Dibromobiphenyl - mg/kg 5 ND ND ND Testabromobiphenyl - mg/kg 5 ND ND ND Pentabromobiphenyl - mg/kg 5 ND ND	Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Benzylbutyl Phthalate (BBP) 1,000 mg/kg 50 ND ND ND Bis-(2-ethylhexyl) Phthalate (DEHP) 1,000 mg/kg 50 ND ND ND Diisobutyl Phthalate (DIBP) 1,000 mg/kg 50 ND ND ND Test Item(s) Limit Unit MDL MDL 070 071 077 077 Cadmium (Cd) 100 mg/kg 2 ND ND ND Lead (Pb) 1,000 mg/kg 2 ND ND ND Mercury (Hg) 1,000 mg/kg 2 ND ND ND Hexavalent Chromium (CrVI) 1,000 mg/kg 8 ND ND ND Sum of PBBs 1,000 mg/kg - ND ND ND Monobromobiphenyl - mg/kg 5 ND ND ND Dibromobiphenyl - mg/kg 5 ND ND ND Tribromobiphenyl - mg/kg 5 ND ND ND Pentabromobiphenyl - mg/kg 5 ND ND ND Hexabromobiphenyl - mg/kg 5 ND ND ND H	Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate (DEHP) 1,000 mg/kg 50 ND ND ND Diisobutyl Phthalate (DIBP) 1,000 mg/kg 50 ND ND ND Test Item(s) Limit Unit MDL 070 071 077 Cadmium (Cd) 100 mg/kg 2 ND ND ND Lead (Pb) 1,000 mg/kg 2 ND ND ND Mercury (Hg) 1,000 mg/kg 2 ND ND ND Hexavalent Chromium (CrVI) 1,000 mg/kg 8 ND ND ND Sum of PBBs 1,000 mg/kg - ND ND ND Monobromobiphenyl - mg/kg 5 ND ND ND Dibromobiphenyl - mg/kg 5 ND ND ND Tribromobiphenyl - mg/kg 5 ND ND ND Tetrabromobiphenyl - mg/kg 5 ND ND ND Pentabromobiphenyl - mg/kg 5 ND ND ND Hexabromobiphenyl - mg/kg 5 ND ND ND Octabr	Dibutyl Phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate (DIBP) 1,000 mg/kg 50 ND ND ND Test Item(s) Limit Unit MDL 070 071 077 Cadmium (Cd) 100 mg/kg 2 ND ND ND Lead (Pb) 1,000 mg/kg 2 ND ND ND Mercury (Hg) 1,000 mg/kg 2 ND ND ND Hexavalent Chromium (CrVI) 1,000 mg/kg 8 ND ND ND Sum of PBBs 1,000 mg/kg 8 ND ND ND Monobromobiphenyl - mg/kg 5 ND ND ND Monobromobiphenyl - mg/kg 5 ND ND ND Dibromobiphenyl - mg/kg 5 ND ND ND Tetrabromobiphenyl - mg/kg 5 ND ND ND Pentabromobiphenyl - mg/kg	Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND
Test Item(s) Limit Unit MDL 070 071 077 Cadmium (Cd) 100 mg/kg 2 ND ND ND Lead (Pb) 1,000 mg/kg 2 ND ND ND Mercury (Hg) 1,000 mg/kg 2 ND ND ND Hexavalent Chromium (CrVI) 1,000 mg/kg 8 ND ND ND Sum of PBBs 1,000 mg/kg 8 ND ND ND Monobromobiphenyl - mg/kg 5 ND ND ND Monobromobiphenyl - mg/kg 5 ND ND ND Dibromobiphenyl - mg/kg 5 ND ND ND Tribromobiphenyl - mg/kg 5 ND ND ND Tetrabromobiphenyl - mg/kg 5 ND ND ND Hexabromobiphenyl - mg/kg 5 <t< td=""><td>Bis-(2-ethylhexyl) Phthalate (DEHP)</td><td>1,000</td><td>mg/kg</td><td>50</td><td>ND</td><td>ND</td><td>ND</td></t<>	Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND
Cadmium (Cd) 100 mg/kg 2 ND ND ND Lead (Pb) 1,000 mg/kg 2 ND ND ND Mercury (Hg) 1,000 mg/kg 2 ND ND ND Hexavalent Chromium (CrVI) 1,000 mg/kg 8 ND ND ND Sum of PBBs 1,000 mg/kg 8 ND ND ND Monobromobiphenyl - mg/kg 5 ND ND ND Monobromobiphenyl - mg/kg 5 ND ND ND Dibromobiphenyl - mg/kg 5 ND ND ND Tetrabromobiphenyl - mg/kg 5 ND ND ND Pentabromobiphenyl - mg/kg 5 ND ND ND Hexabromobiphenyl - mg/kg 5 ND ND ND Heptabromobiphenyl - mg/kg 5 <t< td=""><td>Diisobutyl Phthalate (DIBP)</td><td>1,000</td><td>mg/kg</td><td>50</td><td>ND</td><td>ND</td><td>ND</td></t<>	Diisobutyl Phthalate (DIBP)	1,000	mg/kg	50	ND	ND	ND
Cadmium (Cd) 100 mg/kg 2 ND ND ND Lead (Pb) 1,000 mg/kg 2 ND ND ND Mercury (Hg) 1,000 mg/kg 2 ND ND ND Hexavalent Chromium (CrVI) 1,000 mg/kg 8 ND ND ND Sum of PBBs 1,000 mg/kg 8 ND ND ND Monobromobiphenyl - mg/kg 5 ND ND ND Monobromobiphenyl - mg/kg 5 ND ND ND Dibromobiphenyl - mg/kg 5 ND ND ND Tetrabromobiphenyl - mg/kg 5 ND ND ND Pentabromobiphenyl - mg/kg 5 ND ND ND Hexabromobiphenyl - mg/kg 5 ND ND ND Heptabromobiphenyl - mg/kg 5 <t< td=""><td>Test Item(s)</td><td>Limit</td><td>Unit</td><td>MDL</td><td>070</td><td>071</td><td>077</td></t<>	Test Item(s)	Limit	Unit	MDL	070	071	077
Lead (Pb) 1,000 mg/kg 2 ND ND ND Mercury (Hg) 1,000 mg/kg 2 ND ND ND Hexavalent Chromium (CrVI) 1,000 mg/kg 8 ND ND ND Sum of PBBs 1,000 mg/kg - ND ND ND Monobromobiphenyl - mg/kg 5 ND ND ND Dibromobiphenyl - mg/kg 5 ND ND ND Tribromobiphenyl - mg/kg 5 ND ND ND Tetrabromobiphenyl - mg/kg 5 ND ND ND Hexabromobiphenyl - mg/kg 5 ND ND ND Heptabromobiphenyl - mg/kg 5 ND ND ND Octabromobiphenyl - mg/kg 5 ND ND ND							
Mercury (Hg) 1,000 mg/kg 2 ND ND ND Hexavalent Chromium (CrVI) 1,000 mg/kg 8 ND ND ND Sum of PBBs 1,000 mg/kg - ND ND ND Monobromobiphenyl - mg/kg 5 ND ND ND Dibromobiphenyl - mg/kg 5 ND ND ND Tribromobiphenyl - mg/kg 5 ND ND ND Tetrabromobiphenyl - mg/kg 5 ND ND ND Pentabromobiphenyl - mg/kg 5 ND ND ND Hexabromobiphenyl - mg/kg 5 ND ND ND Octabromobiphenyl - mg/kg 5 ND ND ND	, ,						
Hexavalent Chromium (CrVI)1,000mg/kg8NDNDNDSum of PBBs1,000mg/kg-NDNDNDMonobromobiphenyl-mg/kg5NDNDNDDibromobiphenyl-mg/kg5NDNDNDTribromobiphenyl-mg/kg5NDNDNDTetrabromobiphenyl-mg/kg5NDNDNDPentabromobiphenyl-mg/kg5NDNDNDHexabromobiphenyl-mg/kg5NDNDNDHeptabromobiphenyl-mg/kg5NDNDNDOctabromobiphenyl-mg/kg5NDNDND	· '						
Sum of PBBs 1,000 mg/kg - ND ND ND Monobromobiphenyl - mg/kg 5 ND ND ND Dibromobiphenyl - mg/kg 5 ND ND ND Tribromobiphenyl - mg/kg 5 ND ND ND Tetrabromobiphenyl - mg/kg 5 ND ND ND Pentabromobiphenyl - mg/kg 5 ND ND ND Heptabromobiphenyl - mg/kg 5 ND ND ND Octabromobiphenyl - mg/kg 5 ND ND ND	· · · ·						
Monobromobiphenyl-mg/kg5NDNDNDDibromobiphenyl-mg/kg5NDNDNDTribromobiphenyl-mg/kg5NDNDNDTetrabromobiphenyl-mg/kg5NDNDNDPentabromobiphenyl-mg/kg5NDNDNDHexabromobiphenyl-mg/kg5NDNDNDHeptabromobiphenyl-mg/kg5NDNDNDOctabromobiphenyl-mg/kg5NDNDND	· · ·			-			
Dibromobiphenyl - mg/kg 5 ND ND ND Tribromobiphenyl - mg/kg 5 ND ND ND Tetrabromobiphenyl - mg/kg 5 ND ND ND Pentabromobiphenyl - mg/kg 5 ND ND ND Hexabromobiphenyl - mg/kg 5 ND ND ND Heptabromobiphenyl - mg/kg 5 ND ND ND Octabromobiphenyl - mg/kg 5 ND ND ND Octabromobiphenyl - mg/kg 5 ND ND ND		-		5			
Tribromobiphenyl-mg/kg5NDNDNDTetrabromobiphenyl-mg/kg5NDNDNDPentabromobiphenyl-mg/kg5NDNDNDHexabromobiphenyl-mg/kg5NDNDNDHeptabromobiphenyl-mg/kg5NDNDNDOctabromobiphenyl-mg/kg5NDNDND	· -	_					
Tetrabromobiphenyl-mg/kg5NDNDNDPentabromobiphenyl-mg/kg5NDNDNDHexabromobiphenyl-mg/kg5NDNDNDHeptabromobiphenyl-mg/kg5NDNDNDOctabromobiphenyl-mg/kg5NDNDND		_					
Pentabromobiphenyl - mg/kg 5 ND ND ND Hexabromobiphenyl - mg/kg 5 ND ND ND Heptabromobiphenyl - mg/kg 5 ND ND ND ND Octabromobiphenyl - mg/kg 5 ND ND ND ND	· •	_					
Hexabromobiphenyl-mg/kg5NDNDNDHeptabromobiphenyl-mg/kg5NDNDNDOctabromobiphenyl-mg/kg5NDNDND	· -	-					
Heptabromobiphenyl-mg/kg5NDNDOctabromobiphenyl-mg/kg5NDNDND	• •	-					
Octabromobiphenyl - mg/kg 5 ND ND ND		-					
	· · · · ·	-				ND	ND
понавтонновірнієнуї - тід/кд э по по по	Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl - mg/kg 5 ND ND ND	· · ·	-					
Sum of PBDEs 1,000 mg/kg - ND ND ND		1,000		-			
Monobromodiphenyl ether - mg/kg 5 ND ND ND		-		5			
Dibromodiphenyl ether - mg/kg 5 ND ND ND	• •	-					



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>070</u>	<u>071</u>	<u>077</u>
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl Phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND
Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate (DIBP)	1,000	mg/kg	50	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>078</u>	<u>079</u>	<u>080</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	20	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl Phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>078</u>	<u>079</u>	<u>080</u>	
Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND	
Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND	
Diisobutyl Phthalate (DIBP)	1,000	mg/kg	50	ND	ND	ND	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>081</u>	<u>082</u>	<u>083</u>	
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND	
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND	
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND	
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND	
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND	
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND	
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND	
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND	
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND	
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Dibutyl Phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND	
Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND	
Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND	
Diisobutyl Phthalate (DIBP)	1,000	mg/kg	50	ND	ND	ND	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>084</u>	<u>085</u>	<u>086</u>	
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND	
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND	
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND	



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>084</u>	<u>085</u>	<u>086</u>
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	, -	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	_	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	_	mg/kg	5	ND	ND	ND
Decabromobiphenyl	_	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	· -	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	_	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl Phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND
Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate (DIBP)	1,000	mg/kg	50	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>087</u>	<u>088</u>	<u>089</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	16	24	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>087</u>	<u>088</u>	<u>089</u>	
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND	
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Dibutyl Phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND	
Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND	
Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND	
Diisobutyl Phthalate (DIBP)	1,000	mg/kg	50	ND	ND	ND	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>090</u>	<u>091</u>	<u>092</u>	
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND	
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND	
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND	
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND	
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND	
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND	
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND	
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND	
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND	
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>090</u>	<u>091</u>	<u>092</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Dibutyl Phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND	
Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND	
Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND	
Diisobutyl Phthalate (DIBP)	1,000	mg/kg	50	ND	ND	ND	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>093</u>	<u>094</u>	<u>095</u>	
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND	
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND	
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND	
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND	
Sum of PBBs	1,000	mg/kg	_	ND	ND	ND	
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND	
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND	
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND	
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND	
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Dibutyl Phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND	
Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND	
Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND	
Diisobutyl Phthalate (DIBP)	1,000	mg/kg	50	ND	ND	ND	

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Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>096</u>	<u>097</u>	<u>098</u>	
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND	
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND	
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND	
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND	
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND	
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND	
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND	
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND	
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND	
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Dibutyl Phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND	
Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND	
Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND	
Diisobutyl Phthalate (DIBP)	1,000	mg/kg	50	ND	ND	ND	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>099</u>	<u>111</u>	<u>112</u>	
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND	
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND	
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND	
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND	
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND	
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND	
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND	
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND	



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>099</u>	<u>111</u>	<u>112</u>	
Tetrabromobiphenyl		mg/kg	5	ND	ND	ND	
Pentabromobiphenyl	_	mg/kg	5	ND	ND	ND	
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND	
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Dibutyl Phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND	
Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND	
Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND	
Diisobutyl Phthalate (DIBP)	1,000	mg/kg	50	ND	ND	ND	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>113</u>	<u>115</u>		
Cadmium (Cd)	100	mg/kg	2	ND	ND		
Lead (Pb)	1,000	mg/kg	2	ND	ND		
Mercury (Hg)	1,000	mg/kg	2	ND	ND		
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND		
Sum of PBBs	1,000	mg/kg	-	ND	ND		
Monobromobiphenyl	-	mg/kg	5	ND	ND		
Dibromobiphenyl	-	mg/kg	5	ND	ND		
Tribromobiphenyl	-	mg/kg	5	ND	ND		
Tetrabromobiphenyl	-	mg/kg	5	ND	ND		
Pentabromobiphenyl	-	mg/kg	5	ND	ND		
Hexabromobiphenyl	-	mg/kg	5	ND	ND		
Heptabromobiphenyl	-	mg/kg	5	ND	ND		
Octabromobiphenyl	-	mg/kg	5	ND	ND		
Nonabromobiphenyl	-	mg/kg	5	ND	ND		
Decabromobiphenyl	-	mg/kg	5	ND	ND		
Sum of PBDEs	1,000	mg/kg	-	ND	ND		
Monobromodiphenyl ether	-	mg/kg	5	ND	ND		



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<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>113</u>	<u>115</u>	
-	mg/kg	5	ND	ND	
-	mg/kg	5	ND	ND	
-	mg/kg	5	ND	ND	
-	mg/kg	5	ND	ND	
-	mg/kg	5	ND	ND	
-	mg/kg	5	ND	ND	
-	mg/kg	5	ND	ND	
-	mg/kg	5	ND	ND	
-	mg/kg	5	ND	ND	
1,000	mg/kg	50	ND	ND	
1,000	mg/kg	50	ND	ND	
1,000	mg/kg	50	ND	ND	
1,000	mg/kg	50	ND	ND	
	Limit 1,000 1,000	Limit Unit - mg/kg 1,000 mg/kg 1,000 mg/kg 1,000 mg/kg 1,000 mg/kg	Limit Unit MDL - mg/kg 5 1,000 mg/kg 50 1,000 mg/kg 50 1,000 mg/kg 50	Limit Unit MDL 113 - mg/kg 5 ND 1,000 mg/kg 50 ND 1,000 mg/kg 50 ND 1,000 mg/kg 50 ND	

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID: 1258637,25

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC62321-4:2013+A1:2017, IEC62321-5:2013 and IEC62321-7-1:2015, analyzed by ICP-OES and UV-Vis.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	<u>003</u>	<u>005</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	5	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.1	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	<u>008</u>	<u>009</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	5	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.1	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>011</u>	<u>012</u>	<u>014</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	5	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND

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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>011</u>	<u>012</u>	<u>014</u>	
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.1	ND	ND	ND	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>015</u>	<u>017</u>	<u>018</u>	
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND	
Lead (Pb)	1,000	mg/kg	5	ND	ND	ND	
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND	
Hexavalent Chromium (Cr(VI))▼	-	μg/cm²	0.1	ND	ND	ND	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>020</u>	<u>021</u>	<u>023</u>	
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND	
Lead (Pb)	1,000	mg/kg	5	ND	ND	ND	
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND	
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.1	ND	ND	ND	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>024</u>	<u>026</u>	<u>027</u>	
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND	
Lead (Pb)	1,000	mg/kg	5	ND	ND	ND	
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND	
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.1	ND	ND	ND	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>029</u>	<u>030</u>	<u>032</u>	
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND	
Lead (Pb)	1,000	mg/kg	5	ND	ND	ND	
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND	
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.1	ND	ND	ND	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>033</u>	<u>035</u>	<u>036</u>	
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND	
Lead (Pb)	1,000	mg/kg	5	ND	ND	ND	
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND	
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.1	ND	ND	ND	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>049</u>	<u>066</u>	<u>100</u>	
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND	
Lead (Pb)	1,000	mg/kg	5	ND	ND	ND	
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND	
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.1	ND	ND	ND	



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>114</u>	
Cadmium (Cd)	100	mg/kg	2	ND	
Lead (Pb)	1,000	mg/kg	5	ND	
Mercury (Hg)	1,000	mg/kg	2	ND	
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.1	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- IEC 62321 series is equivalent to EN 62321 series
- http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID: 1258637,25
- (2) ▼ = a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μg/cm2. The sample coating is considered to contain Cr(VI)
- b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 μg/cm2). The coating is considered a non-Cr(VI) based coating
- c. The result between 0.10 µg/cm2 and 0.13 µg/cm2 is considered to be inconclusive 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.

Remark:

1. The test results were obtained from a SGS affiliated laboratory.

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Test Report

Sample photo:

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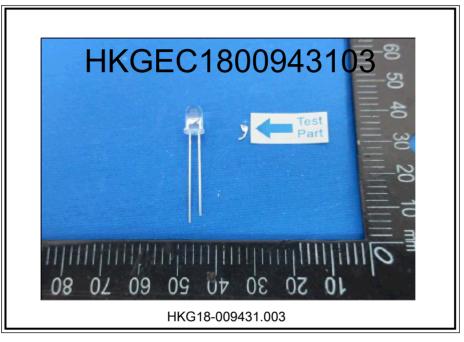




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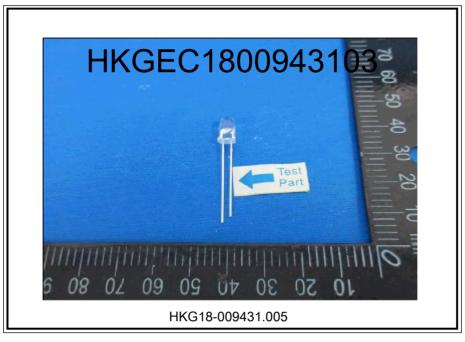




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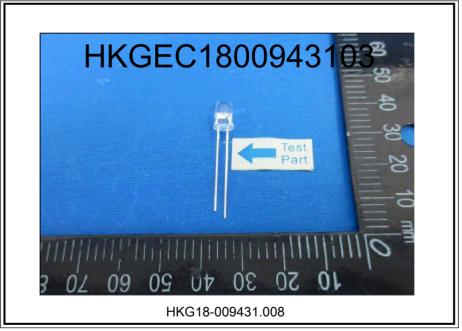


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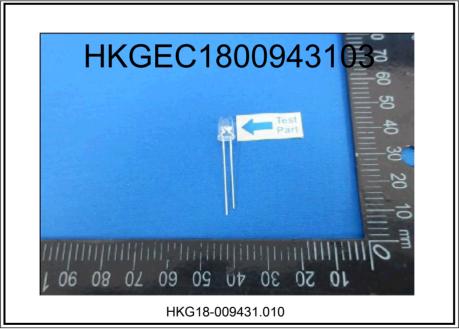


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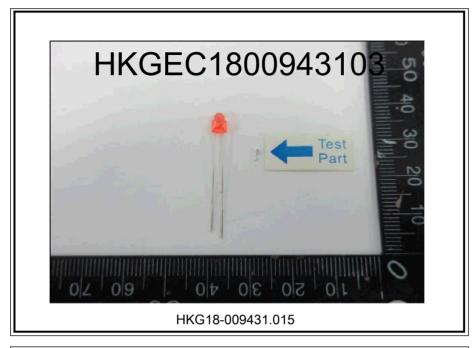


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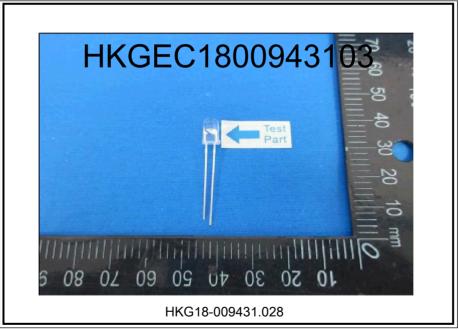


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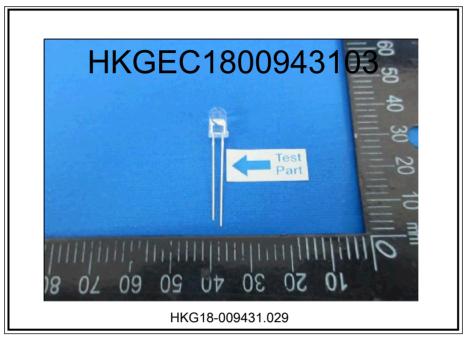


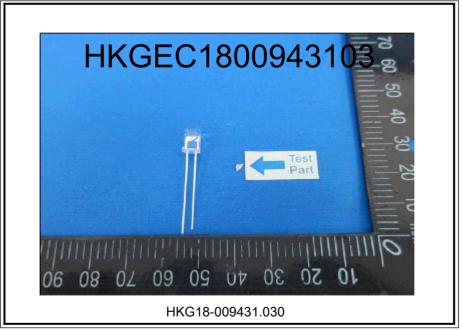


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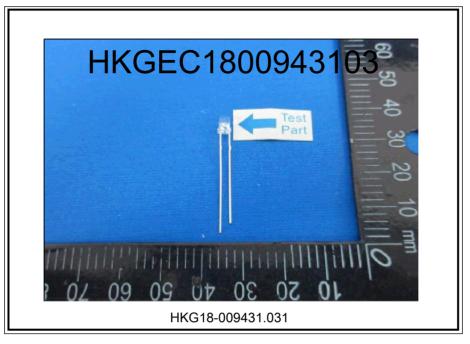




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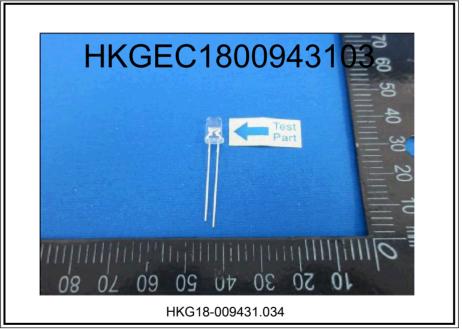


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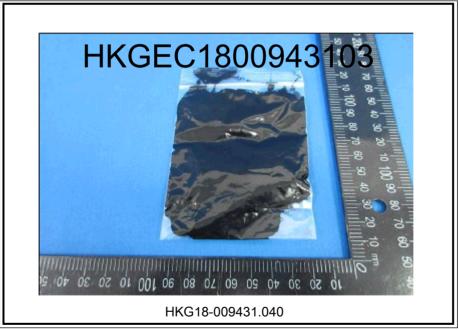
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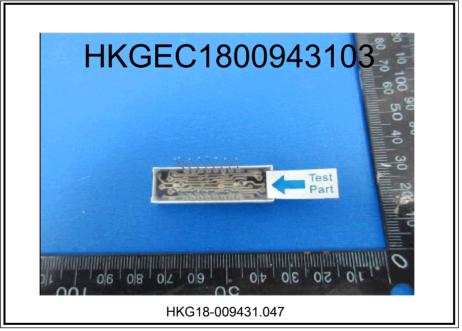


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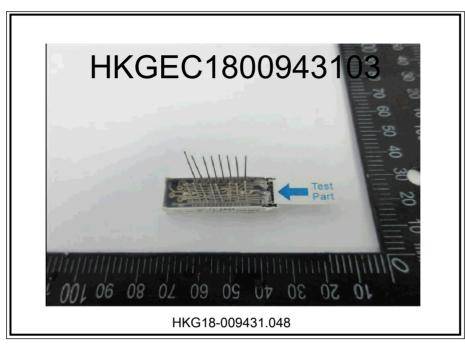


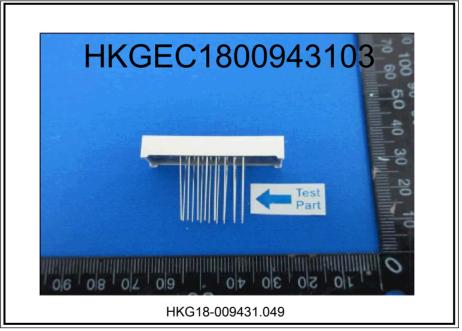


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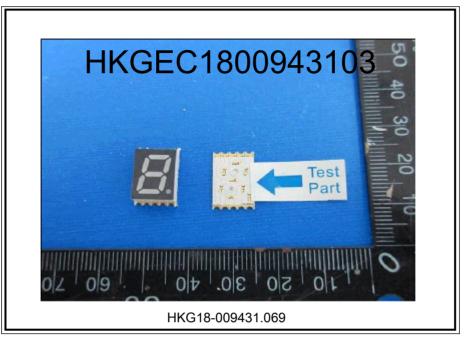


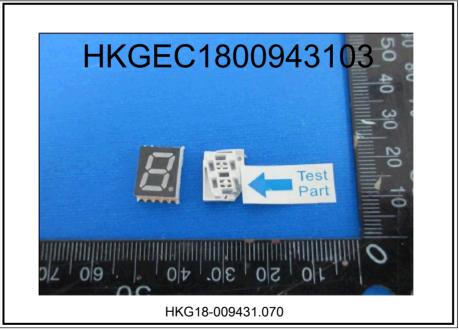


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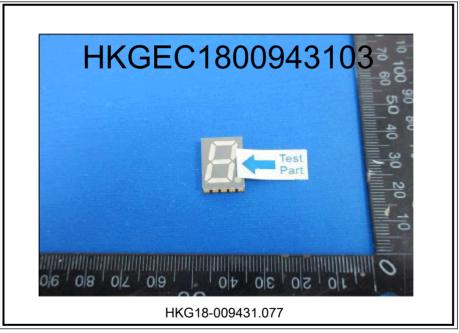


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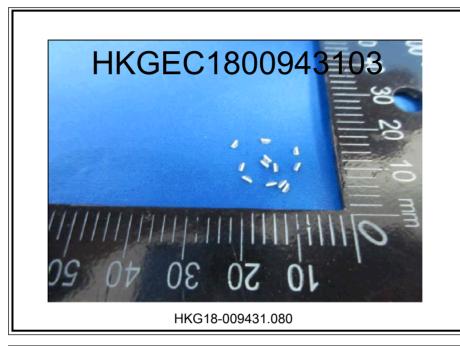




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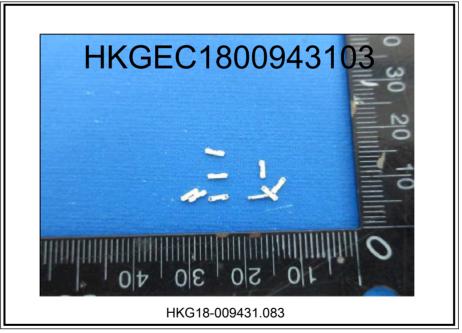


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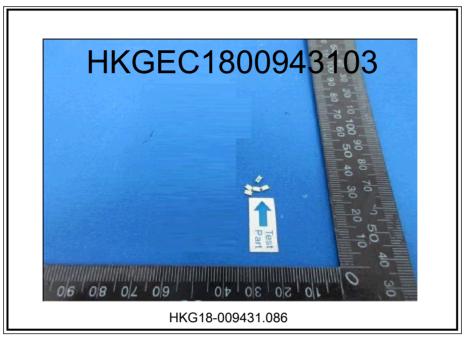


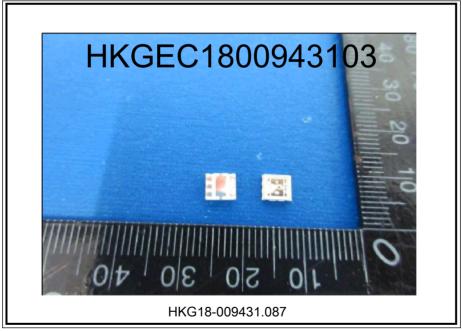


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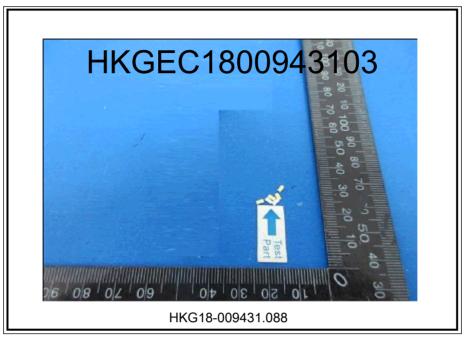




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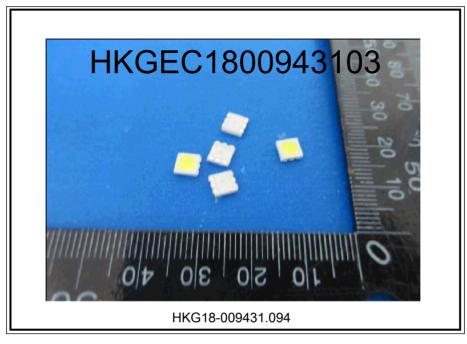




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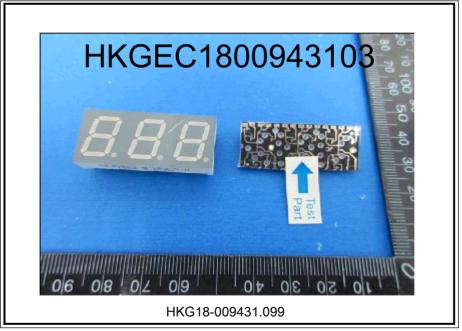


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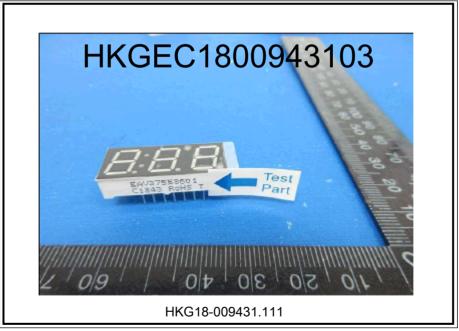


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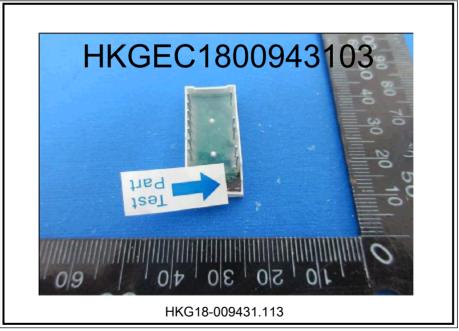


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