

Test Report No. C190220048001 Date: Feb 25, 2019 Page 1 of 20

Applicant: ShenZhen Hello 3D Technology Co.,Ltd.

Applicant Address: 2F, Block 50, 2ND Industry Zone, Xitian, Gongming Street, Guangming New District,

ShenZhen, China.

The following samples were submitted and identified on behalf of the clients as

Sample Name: Please refer to next page(s).

Model: Please refer to next page(s).

CPST Internal Reference No.: C190220048 Sample Received Date: Feb 20, 2019

Test Period: Feb 20, 2019 to Feb 25, 2019

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

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

CONCLUSION:

TESTED SAMPLES TEST ITEM RESULT

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

and amending Annex (EU)2017/2102

Please refer to next — Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs

page(s). PASS

—Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP),

Dibutyl phthalate (DBP), Diisobutyl phthalate(DIBP) Content

Dibutyi pritrialate (DBP), Diisobutyi pritrialate(DIBP) Conten

Signed for and on behalf of Eurones Consumer Products Testing Service Co., Ltd

TESTED BY:

REVIEWED BY:

Sunshine Liu

APPROVED BY:

Wang Guang Yu, Andy Project Leader

andy Wang

Liu Xiao Fang, Sunshine Report Reviewer

Pan Jian Ding, Will Technical Supervisor

Will Pan

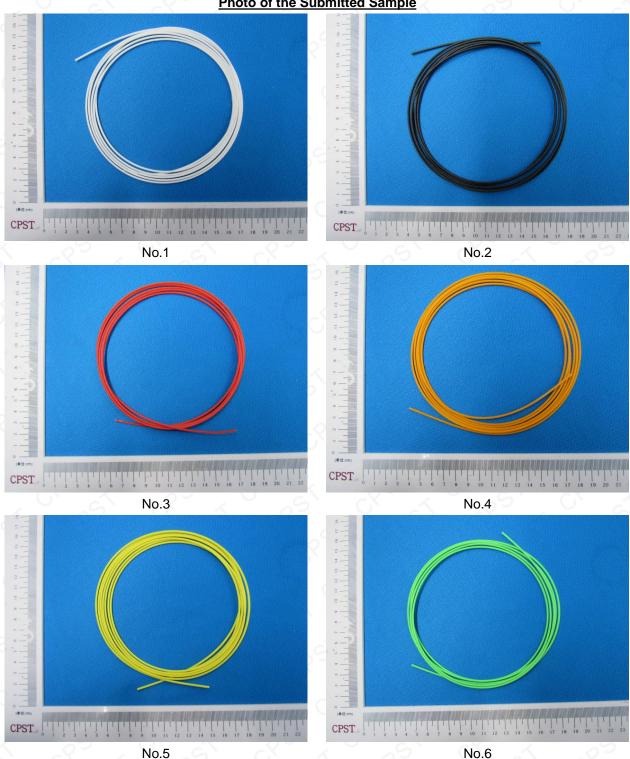
Test Report

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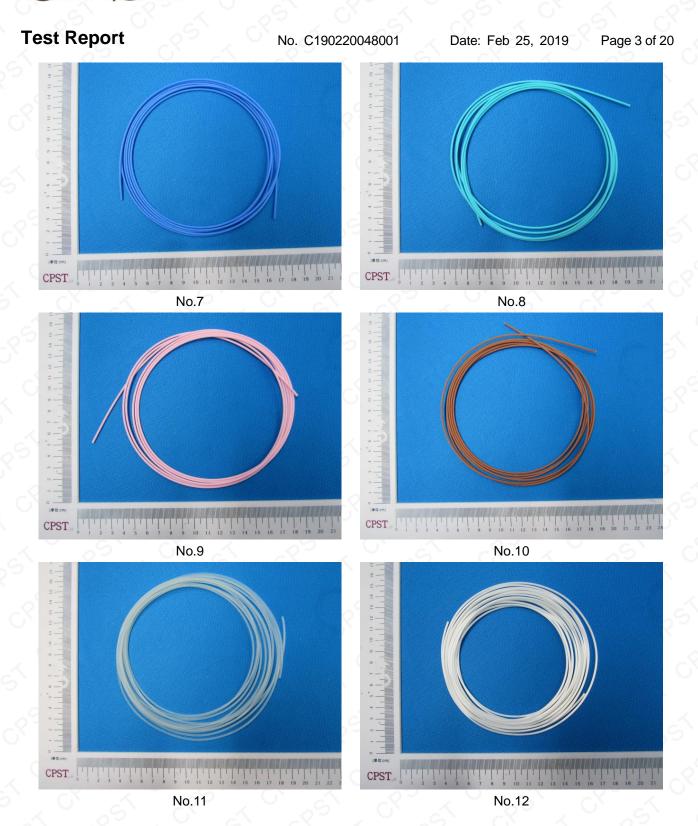
Date: Feb 25, 2019

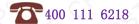
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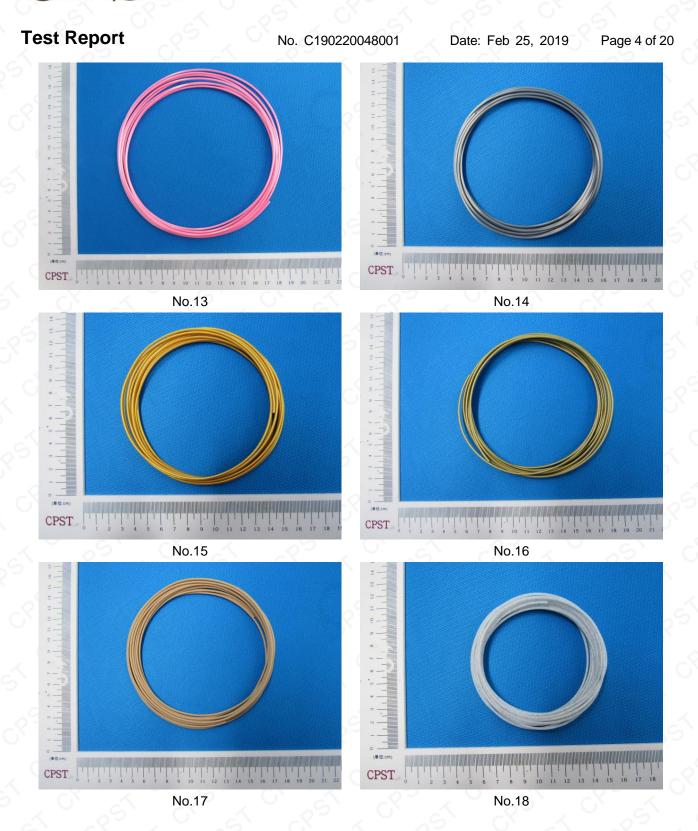
Photo of the Submitted Sample

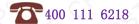












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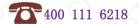


No.19

Sample List:

No	Sample Name	Model	Description of Specimen	
(1	FILAMENT-WHT-C	PLA D1.75 WHITE02 0001	White wire	
2	FILAMENT-BLK-C	PLA D1.75 BLACK 0002	Black wire	
3	FILAMENT-RED-C	PLA D1.75 RED 0003	Red wire	
4	FILAMENT-ORG-C	PLA D1.75 ORANGE 0004	Orange wire	
5	FILAMENT-YEL-C	PLA D1.75 YELLOW 0005	Yellow wire	
6	FILAMENT-GRN-C	PLA D1.75 GREEN 0006	Green wire	
7	FILAMENT-BLU-C	PLA D1.75 BLUE 0007	Blue wire	
8	FILAMENT-SKY-C	PLA D1.75 SKY BLUE 0008	Sky blue wire	
9	FILAMENT-PNK-C	PLA D1.75 PINK 0009	Pink wire	
10	FILAMENT-BRN-C	PLA D1.75 BROWN 0010	Brown wire	
11	FILAMENT-GITD-C	PLA D1.75 LUMINOUS GREEN 0011	Luminous green wire	
12	FILAMENT-SWHT-C	PLA D1.75 SILK WHITE 0012	Silk white wire	
13	FILAMENT-SPNK-C	PLA D1.75 SILK PINK 0013	Silk pink wire	
14	FILAMENT-SVR-C	PLA D1.75 SILK SILVER GREY 0014	Silk silver grey wire	
15	FILAMENT-GOLD-C	PLA D1.75 GOLD 0015	Gold wire	
16	FILAMENT-BRZ-C	PLA D1.75 FROSTED BRONZE 0016	Frosted bronze wire	
17	FILAMENT-WOOD-C	PLA D1.75 WOOD 0017	Wood wire	
18	FILAMENT-MARB-C	PLA D1.75 MARBLE WHITE 0018	MARBLE white wire	
19	Reel	Reel	Transparent reel (except wire	

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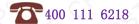
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Test Result(s):

1. Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs—RoHS Directive 2011/65/EU

Annex II amending Annex (EU)2015/863 and amending Annex (EU)2017/2102

Total Name	I I India	Took Makhad	Res	sult	MDL	Limit
Test Items	Unit	Test Method	No.1	No.2	MDL	Limit
Lead (Pb)	mg/kg IEC 62321-5:2013, ICP-OES		N.D.	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321-4:2013+A1:2017, ICP-OES	N.D.	N.D.	2	1000
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	2	100
Hexavalent Chromium (CrVI)	mg/kg	IEC 62321-7-2:2017, UV-VIS	N.D.	N.D.	2	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	_<
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	0,5
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS N.D. N.D.		5	·	
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	GY.
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	16 ⁻
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	<
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	.0
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	0.
Sum of PBBs	mg/kg	3 2 6	N.D.	N.D.	25)	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	<u> </u>
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	9 -
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	- 6
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	CX-
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	× -C
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	5`-
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-8-
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	٠- /
Sum of PBDEs	mg/kg	7 - 6	N.D.	N.D.	19 <u>-</u>	1000

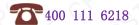




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Tool Home	2 I Init	Tool Mathad	Res	sult	MDI	Limit
Test Items	Unit	Test Method	No.3	No.4	MDL	Limit
Lead (Pb)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321-4:2013+A1:2017, ICP-OES	N.D.	N.D.	2	1000
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	2	100
Hexavalent Chromium (CrVI)	mg/kg	IEC 62321-7-2:2017, UV-VIS	N.D.	N.D.	2	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	JY -
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-<
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	ζ -
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	<u>-</u>
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	8-
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	′ <u>-</u>
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	Ĉ,
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	- <
Sum of PBBs	mg/kg	28 × 6	N.D.	N.D.	- .	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	· - c
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	68.
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	_
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	(
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	g^-
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	- ,
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	- 9
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	0,-
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-0
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	<u> </u>
Sum of PBDEs	mg/kg	CX 4- 49	N.D.	N.D.	-0	1000

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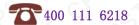




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Test Items	Unit	Took Mathad	Res	sult	MDL	Limit
rest items	Unit	Test Method	No.5	No.6	MIDL	Limit
Lead (Pb)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321-4:2013+A1:2017, ICP-OES	N.D.	N.D.	2	1000
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	2	100
Hexavalent Chromium (CrVI)	mg/kg	IEC 62321-7-2:2017, UV-VIS	N.D.	N.D.	2	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	JY -
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS N.D. N.D.		5	-<	
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	ζ -
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	6
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	8-
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-5
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	Ġ,
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	~
Sum of PBBs	mg/kg	R 2 2	N.D.	N.D.	- <	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	· - c
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	68.
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	_
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	(
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	g^-
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	- ,
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-0-9
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	0,-
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-c'
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	<u> </u>
Sum of PBDEs	mg/kg	CS 4- 25	N.D.	N.D.	-0	1000

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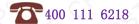




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Tool Home	2 I Init	Tool Mathad	Res	sult	MDI	Limit
Test Items	Unit	Test Method	No.7	No.8	MDL	Limit
Lead (Pb)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D. N.D.		1000
Mercury (Hg)	mg/kg	IEC 62321-4:2013+A1:2017, ICP-OES	N.D.	N.D.	2	1000
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	2	100
Hexavalent Chromium (CrVI)	mg/kg	IEC 62321-7-2:2017, UV-VIS	N.D.	N.D.	2	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	JY -
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-<
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	ζ -
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	- (
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	8-
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	′ <u>-</u>
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	Ĉ,
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	- <
Sum of PBBs	mg/kg	28 × 6	N.D.	N.D.	· - ¿	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	` - c
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	68.
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	_
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	(
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	g^-
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	- ,
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	- 9
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	0,-
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-0
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	< - T
Sum of PBDEs	mg/kg	CX 4- 49	N.D.	N.D.	-0	1000

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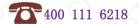




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	2 I Init	Tool Mathad	Re	sult	MA	Limit
Test Items	Unit	Test Method	No.9	No.10	MDL	Limit
Lead (Pb)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321-4:2013+A1:2017, ICP-OES	N.D.	N.D.	2	1000
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-OES N.D. N.D.		2	100	
Hexavalent Chromium (CrVI)	mg/kg	IEC 62321-7-2:2017, UV-VIS N.D. N.D. 2		2	1000	
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	JY -
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS N.D. N.D.		5	-<	
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	ζ -
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	<u>~</u>
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	87
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	· -0
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	G_{χ}
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	~
Sum of PBBs	mg/kg	3 2 3	N.D.	N.D.		1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	· - c
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	68.
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	(
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	6
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	- ,
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-0-5
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	0,
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-c'
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	۸-۲
Sum of PBDEs	mg/kg	CS 4- 25	N.D.	N.D.	-0	1000

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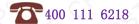




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Test Items	Unit	Took Moth and	Res	sult	MDL	Limit
rest items	Unit	Test Method	No.11	No.12	MIDL	Limit
Lead (Pb)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321-4:2013+A1:2017, ICP-OES	N.D.	N.D.	2	1000
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	2	100
Hexavalent Chromium (CrVI)	mg/kg	IEC 62321-7-2:2017, UV-VIS	N.D.	N.D.	2	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	JY -
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS N.D. N.D.		5	-<	
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS N.D. N.D.		5	ζ -	
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	<u>~</u>
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	87
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	· -0
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	G,
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	~
Sum of PBBs	mg/kg	3 2 29	N.D.	N.D.		1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	` - c
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	68.
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	_
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	(
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	<u> </u>
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	- ,
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	00
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	0.7
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-c'
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	<u> </u>
Sum of PBDEs	mg/kg	CX X- 25	N.D.	N.D.	-0	1000

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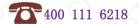




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Tast Harris	2 I India	Took Mother d	Res	sult	MDL	Limit
Test Items	Unit	Test Method	No.13	No.14	MDL	Limit
Lead (Pb)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321-4:2013+A1:2017, ICP-OES	N.D.	N.D.	2	1000
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	2	100
Hexavalent Chromium (CrVI)	mg/kg	IEC 62321-7-2:2017, UV-VIS	N.D.	N.D.	2	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	5X -
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-<
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	ζ -
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	8-
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	′ -oʻ
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	Ĉ,
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	~
Sum of PBBs	mg/kg	3 2 6	N.D.	N.D.	Ŭ- ,	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	` - c
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	8.
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	_
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	(
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	6
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	- ,
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	00
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	0.7
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-c'
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	. K - T
Sum of PBDEs	mg/kg	CX X- 25	N.D.	N.D.	-0	1000

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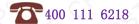




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Tast Hadis	2 I Init	Took Mother d	Res	sult	MDL	Limit
Test Items	Unit	Test Method	No.15	No.16	MDL	Limit
Lead (Pb)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321-4:2013+A1:2017, ICP-OES	N.D.	N.D.	2	1000
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	2	100
Hexavalent Chromium (CrVI)	mg/kg	IEC 62321-7-2:2017, UV-VIS	N.D.	N.D.	2	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	5X -
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-<
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	ζ -
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	<u>~</u>
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	8-
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	′ -oʻ
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	Q,
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Sum of PBBs	mg/kg	3 2 6	N.D.	N.D.	Ŭ- ,	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	` - c
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	8.
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	_
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	(
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	6
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	- /
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	00
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	0.7
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-c'
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	. K - T
Sum of PBDEs	mg/kg	CX X- 25	N.D.	N.D.	-0	1000

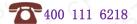
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Table Market	Q Line in	Took Mode and	Res	sult	MDI	Limit
Test Items	Unit	Test Method	No.17	No.18	MDL	Limit
Lead (Pb)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321-4:2013+A1:2017, ICP-OES	N.D.	N.D.	2	1000
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-OES N.D. N.D.		2	100	
Hexavalent Chromium (CrVI)	mg/kg	IEC 62321-7-2:2017, UV-VIS	N.D.	N.D.	2	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	JX -
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-<
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	ζ -
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	87
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	′ <u>-</u> ~
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	Ō,
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	~
Sum of PBBs	mg/kg	CR 2 25	N.D.	N.D.		1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	` - c
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	68.
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	(
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	g^-
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	- ,
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	0-6
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	0.7
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	-c'
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	N.D.	5	<u> </u>
Sum of PBDEs	mg/kg	CX X- 25	N.D.	N.D.	-0	1000



Test Report

No. C190220048001 Date: Feb 25, 2019 Page 15 of 20 Result Unit **Test Method** MDL **Test Items** Limit No.19 Lead (Pb) mg/kg IEC 62321-5:2013, ICP-OES N.D. 1000 IEC 62321-4:2013+A1:2017, 1000 Mercury (Hg) N.D. 2 mg/kg **ICP-OES** Cadmium(Cd) IEC 62321-5:2013, ICP-OES N.D. 2 100 mg/kg Hexavalent Chromium (CrVI) IEC 62321-7-2:2017, UV-VIS N.D. 2 1000 mg/kg Monobromobiphenyl IEC 62321-6:2015, GC-MS N.D. 5 mg/kg N.D. Dibromobiphenyl mg/kg IEC 62321-6:2015, GC-MS 5 Tribromobiphenyl mg/kg IEC 62321-6:2015, GC-MS N.D. 5 Tetrabromobiphenyl IEC 62321-6:2015, GC-MS N.D. 5 mg/kg 5 N.D. Pentabromobiphenyl mg/kg IEC 62321-6:2015, GC-MS Hexabromobiphenyl mg/kg IEC 62321-6:2015, GC-MS N.D. 5 5 Heptabromobiphenyl IEC 62321-6:2015, GC-MS N.D. mg/kg N.D. 5 Octabromobiphenyl IEC 62321-6:2015, GC-MS mg/kg IEC 62321-6:2015, GC-MS N.D. 5 Nonabromobiphenyl mg/kg -Decabromobiphenyl mg/kg IEC 62321-6:2015, GC-MS N.D. 5 Sum of PBBs N.D. mg/kg 1000 N.D. 5 Monobromodiphenyl ether mg/kg IEC 62321-6:2015, GC-MS Dibromodiphenyl ether mg/kg IEC 62321-6:2015, GC-MS N.D. 5 N.D. 5 Tribromodiphenyl ether mg/kg IEC 62321-6:2015, GC-MS N.D. 5 Tetrabromodiphenyl ether mg/kg IEC 62321-6:2015, GC-MS Pentabromodiphenyl ether IEC 62321-6:2015, GC-MS N.D. 5 mg/kg Hexabromodiphenyl ether IEC 62321-6:2015, GC-MS N.D. 5 mg/kg Heptabromodiphenyl ether IEC 62321-6:2015, GC-MS N.D. 5 mg/kg N.D. 5 Octabromodiphenyl ether mg/kg IEC 62321-6:2015, GC-MS

Note:

1. mg/kg = milligram per kilogram = ppm

mg/kg

mg/kg

mg/kg

- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit
- 4. "-" = Not Regulated

Nonabromodiphenyl ether

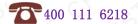
Decabromodiphenyl ether

Sum of PBDEs

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IEC 62321-6:2015, GC-MS

IEC 62321-6:2015, GC-MS



5

5

1000

N.D.

N.D.

N.D.



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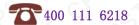
<u>Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP) Content—RoHS Directive 2011/65/EU Annex II amending Annex (EU)2015/863 and amending Annex (EU)2017/2102</u>

Test method: With reference to IEC 62321-8:2017, analysis was performed by GC-MS.

Toot Itoms	Unit	` (R	esult		MDL	Limit
Test Items	Unit	No.1	No.2	No.3	No.4		Limit
Di-(2-ethylhexyl) phthalate (DEHP)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	1000
Benzylbutyl phthalate (BBP)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	1000
Dibutyl phthalate (DBP)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	1000
Diisobutyl phthalate(DIBP)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	1000

Test Items	Unit	68	R	esult		MDL	Limit
rest items		No.5	No.6	No.7	No.8		
Di-(2-ethylhexyl) phthalate (DEHP)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	1000
Benzylbutyl phthalate (BBP)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	1000
Dibutyl phthalate (DBP)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	1000
Diisobutyl phthalate(DIBP)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	1000

Test Items	Unit	Result				MDI	Simile
		No.9	No.10	No.11	No.12	MDL	Limit
Di-(2-ethylhexyl) phthalate (DEHP)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	1000
Benzylbutyl phthalate (BBP)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	1000
Dibutyl phthalate (DBP)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	1000
Diisobutyl phthalate(DIBP)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	1000





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Test Items	Unit	Result				CMD!	1 :
		No.13	No.14	No.15	No.16	MDL	Limit
Di-(2-ethylhexyl) phthalate (DEHP)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	1000
Benzylbutyl phthalate (BBP)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	1000
Dibutyl phthalate (DBP)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	1000
Diisobutyl phthalate(DIBP)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	1000

Test Items	Unit	8	Result	MDI	Limite	
		No.17	No.18	No.19	MDL	Limit
Di-(2-ethylhexyl) phthalate (DEHP)	mg/kg	N.D.	N.D.	N.D.	50	1000
Benzylbutyl phthalate (BBP)	mg/kg	N.D.	N.D.	N.D.	50	1000
Dibutyl phthalate (DBP)	mg/kg	N.D.	N.D.	N.D.	50	1000
Diisobutyl phthalate(DIBP)	mg/kg	N.D.	N.D.	N.D.	50	1000

Note:

- 1. mg/kg = milligram per kilogram = ppm
- 2. N.D. = Not Detected (<MDL)
- 3. MDL = Method detection limit

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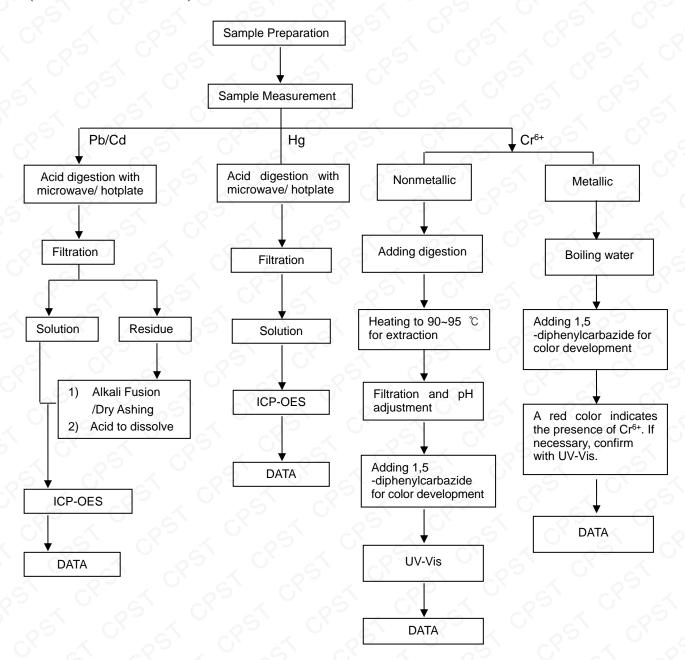
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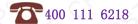
Date: Feb 25, 2019

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Pb/Cd/Hg/Cr6+ Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)





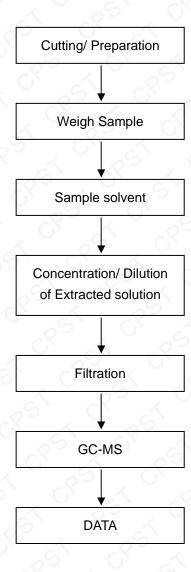


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PBBs/PBDEs Testing Flow Chart



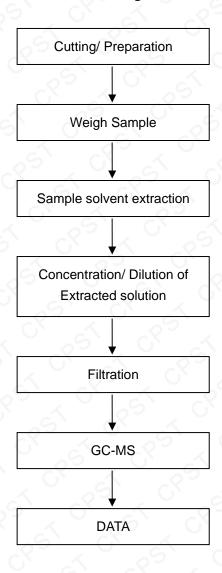


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Phthalates Testing Flow Chart



*** End of Report ***

