

## Test Report

No. C200331034002

Date: Apr 03, 2020

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Applicant: SHENZHEN YUGUANG NEW MATERIAL CO., LTD

Applicant Address: 2/F, Building 3, Huaqiang Industrial Logistics Park, No. 43 Qingfeng Avenue, Longgang District, Shenzhen City, Guangdong Province, China

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

Sample Name: PTNTENG SMart Optically -Controlled Window Film  
Model: PT-7568  
Model Reference: 2/F, Building 3, Huaqiang Industrial Logistics Park, No. 43 Qingfeng Avenue, Longgang District, Shenzhen City, Guangdong Province, China  
CPST Internal Reference No.: C200331034  
Sample Received Date: Mar 31, 2020  
Test Period: Mar 31, 2020 to Apr 03, 2020  
Test Method: Please refer to next page(s).  
Test Result: Please refer to next page(s).

### CONCLUSION :

TESTED SAMPLES	TEST ITEM	RESULT
PTNTENG SMart Optically -Controlled Window Film	1. RoHS Directive 2011/65/EU Annex II amending Annex (EU)2015/863 and amending Annex (EU)2017/2102 — Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content	PASS
	— Di-(2-ethylhexyl) phthalate (DEHP), Benzylbutyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP) Content	PASS

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

TESTED BY :

*David wan*

Wan Da Wei, David  
Project Leader

REVIEWED BY:

*Sunshine Liu*

Liu Xiao Fang, Sunshine  
Report Reviewer

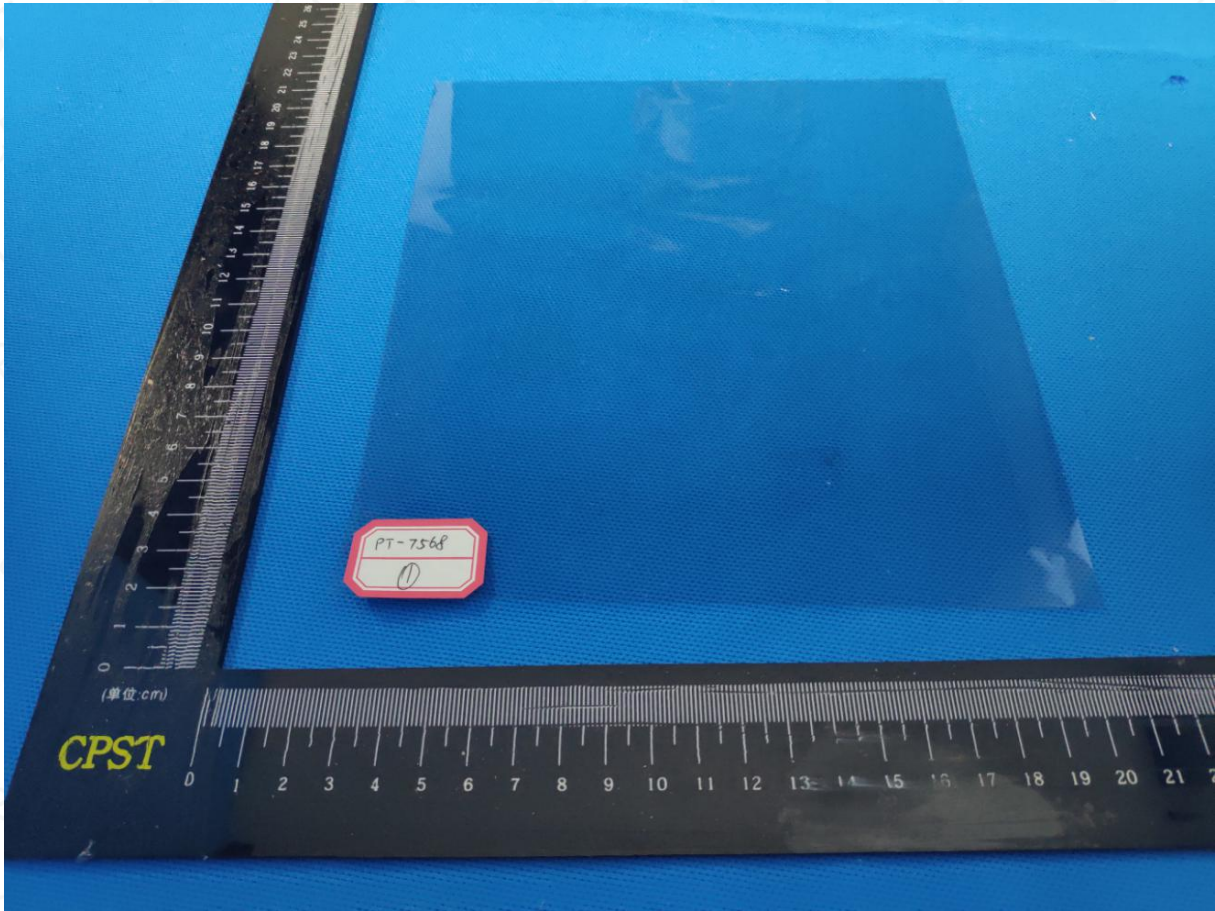
APPROVED BY:

*Will Pan*

Pan Jian Ding, Will  
Technical Supervisor

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### Photo of the Submitted Sample



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### Test Result(s):

Description of Specimen : Transparent insulation film

### 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

Test Items	Unit	Test Method	Result	MDL	Limit
Lead (Pb)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321-4:2013+A1:2017, ICP-OES	N.D.	2	1000
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	2	100
Hexavalent Chromium (CrVI)	mg/kg	IEC 62321-7-2:2017, UV-VIS	N.D.	2	1000
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Sum of PBBs	mg/kg	-	N.D.	-	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	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	N.D.	5	-
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Sum of PBDEs	mg/kg	-	N.D.	-	1000

- Note:
1. mg/kg = milligram per kilogram = ppm
  2. N.D. = Not Detected (< MDL)
  3. MDL = Method Detection Limit
  4. "-" = Not Regulated

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**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**

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

Test Items	Unit	Result	MDL	Limit
Di-(2-ethylhexyl) phthalate (DEHP)	mg/kg	N.D.	50	1000
Benzylbutyl phthalate (BBP)	mg/kg	N.D.	50	1000
Dibutyl phthalate (DBP)	mg/kg	N.D.	50	1000
Diisobutyl phthalate(DIBP)	mg/kg	N.D.	50	1000

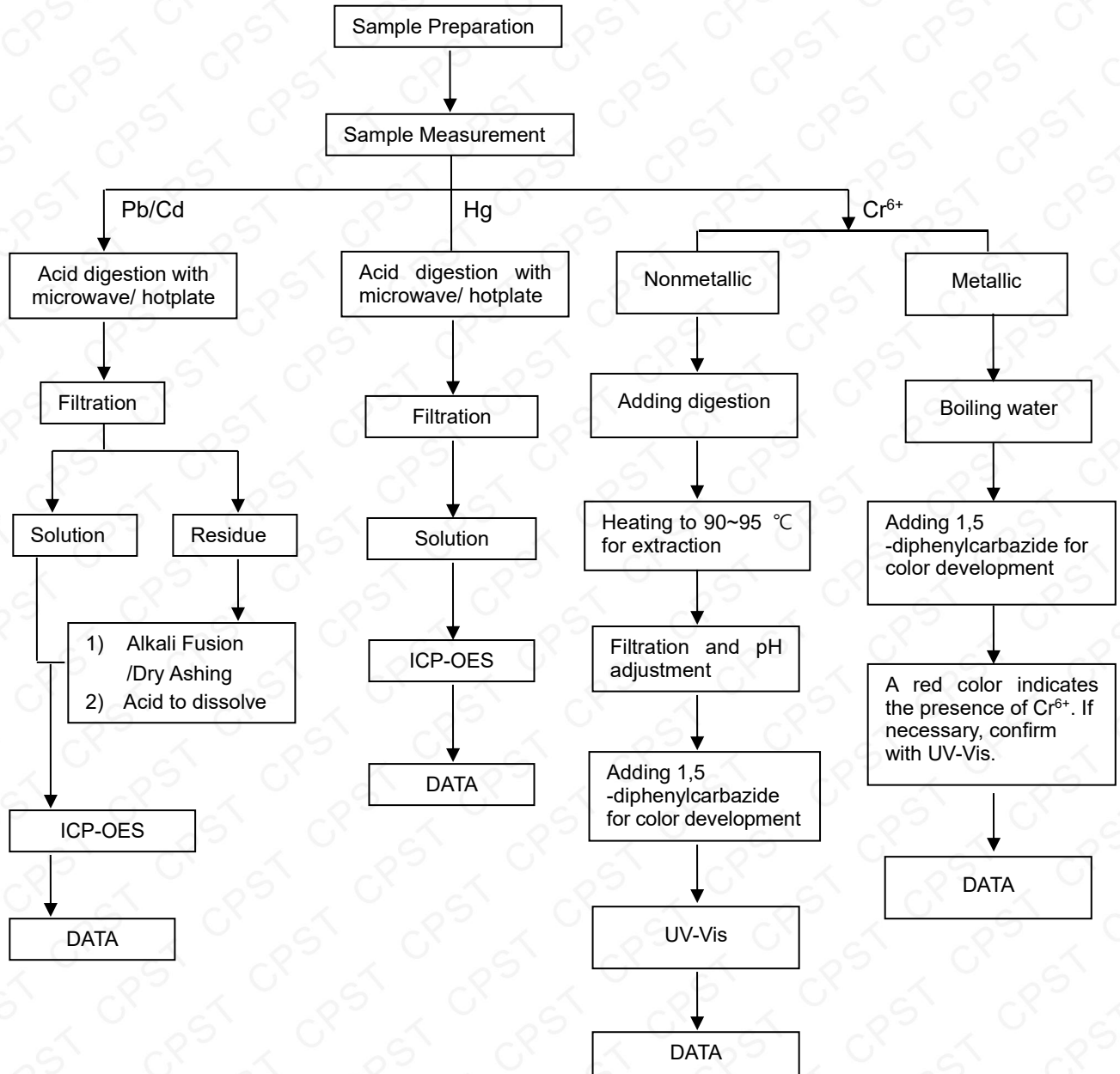
Note:

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

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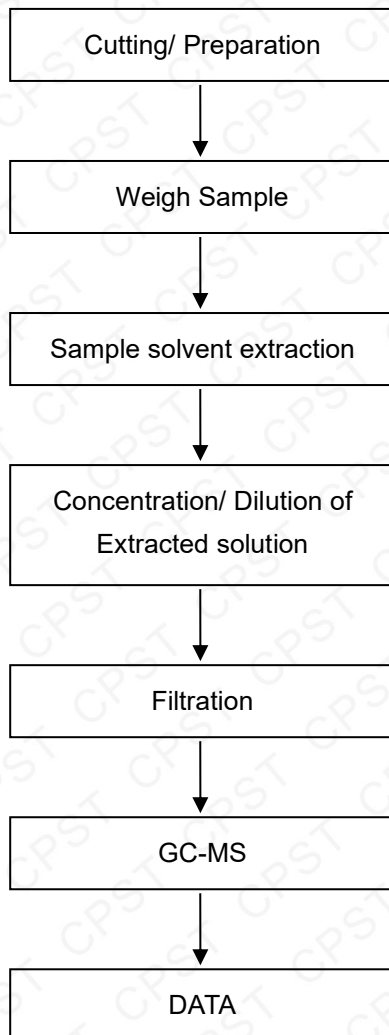
### Pb/Cd/Hg/Cr<sup>6+</sup> Testing Flow Chart

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
(Cr<sup>6+</sup> test method excluded)



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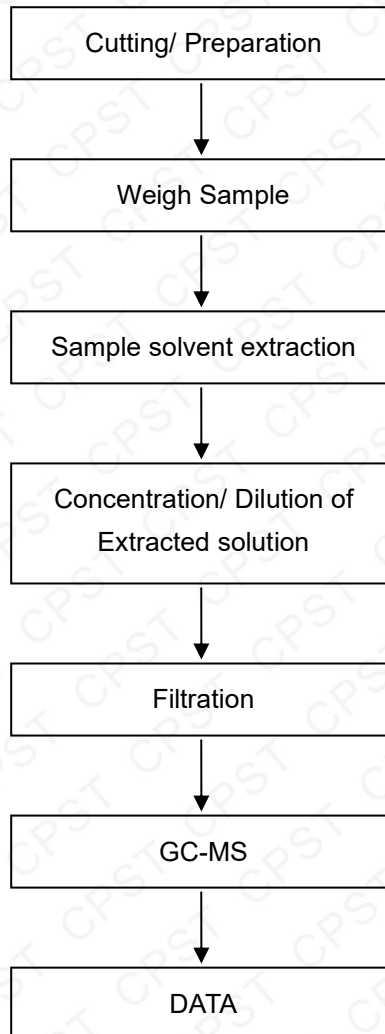
### PBBs/PBDEs Testing Flow Chart



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### Phthalates Testing Flow Chart



\*\*\* End of Report \*\*\*

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