

TEST REPORT

Report No: ST20260727003

Sample Name: auto paint protection film

Authorized By: Shanghai Techlon Co., Ltd.

Test Type: Commissioned Test

Report Date: July 30, 2026

Testing & Compliance Solutions

Approved by:

Hedy



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Test Report

Applicant : Shanghai Techlon Co., Ltd.

Address : Room 303, Building 2A, No. 1101, Huaiyi Road, Jiading District, Shanghai

Sample Name : auto paint protection film

Test Model : TP-LTPU71

Series model : TP-RTPU26,TP-TPH04,TP-PVC62,TT-NF31,TT-UF75,TT-SF39,TT-RF21,TT-CF01,TV-SF02,TV-GF13,TP-LTPU01,TP-LTPU03,TP-LTPU06,TP-LTPU11,TP-LTPU21,TP-LTPU34,TP-LTPU36,TP-LTPU05,TP-LTPU14

Sample Number : ST20260727003

Sample Received Date : July 27, 2026

Test Period : July 27, 2026~July 30, 2026

Summary of test results:

TEST REQUEST

CONCLUSION

According to the client's requirements, the Restriction of the Use of Certain Hazardous Substances in accordance with Directive 2011/65/EU(RoHS) and its amendment Directive (EU)2015/863.

- To determine Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI) , Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) content by screening test and chemical test **PASS**
- (1) **PASS**
- (2) To determine Phthalates (DBP, BBP, DEHP, DIBP) content by chemical test **PASS**

Prepared by:

Huangraihui

Checked by:

Zhou Jie

Sample Photos



Figure 1. Sample photo

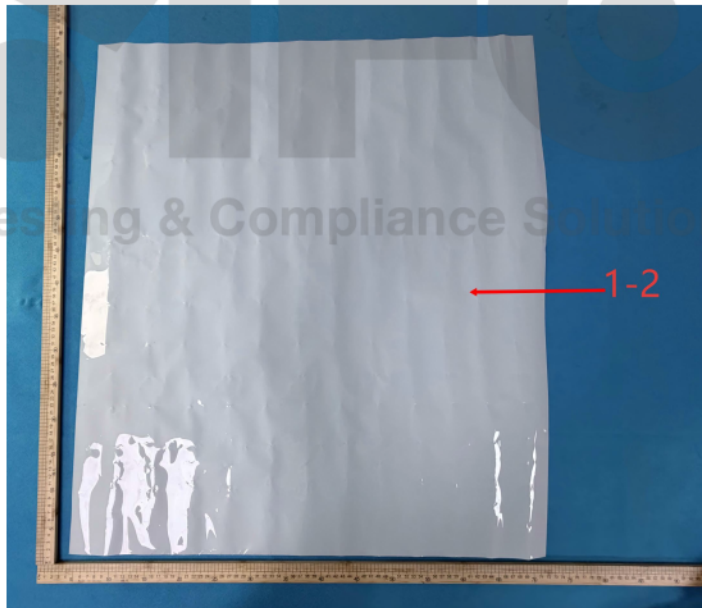


Figure 2. Disassembling photo

1. Test Items

Test items

RoHS 10 items (Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs, DIBP, DBP, BBP, DEHP)

2. Test Method & Equipment

a. XRF Scan Test

Test method:IEC 62321-3-1:2013

Element Test	Polymer	Metal	Composite material
Pb	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (300-3\sigma) < X$ $< (1300+3\sigma) \leq OL$
Cd	$BL \leq (70-3\sigma) < X$ $< (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X$ $< (130+3\sigma) \leq OL$	$LOD < X <$ $(130+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (300-3\sigma) < X$ $< (1300+3\sigma) \leq OL$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (300-3\sigma) < X$
Br	$BL \leq (300-3\sigma) < X$	/	$BL \leq (230-3\sigma) < X$

Explanation:

- 1、BL — Lower than XRF Scan Test
- 2、OL — Higher than XRF Scan Test, Further chemical tests are needed to confirm this
- 3、X — Samples within the XRF scan test value range require further chemical confirmation
- 4、3σ — It shows the repeatability of the analytical instrument

b. Chemical test

Test Items	Test Method	Test Equipment	MDL	Limit
Pb	IEC 62321-5:2013	ICP-OES	10mg/kg	1000 mg/kg
Cd	IEC 62321-5:2013	ICP-OES	10mg/kg	100 mg/kg
Hg	IEC 62321-4:2013/AMD 1:2017	ICP-OES	10mg/kg	1000 mg/kg
Cr ⁶⁺	IEC 62321-7-1:2015	UV-Vis	0.10 μg/cm ²	-
	IEC 62321-7-2:2017	UV-Vis	10 mg/kg	1000 mg/kg
PBBs	IEC 62321-6:2015	GC-MS	-	1000 mg/kg
PBDEs	IEC 62321-6:2015	GC-MS	-	1000 mg/kg

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Test Items	Test Method	Test Equipment	MDL	Limit
DIBP	IEC 62321-8:2017	GC-MS	30 mg/kg	1000 mg/kg
DBP	IEC 62321-8:2017	GC-MS	30 mg/kg	1000 mg/kg
BBP	IEC 62321-8:2017	GC-MS	30 mg/kg	1000 mg/kg
DEHP	IEC 62321-8:2017	GC-MS	30 mg/kg	1000 mg/kg

3. Test Process

In appendix

4. Test Results

Sample description	Items	Unit	XRF Scan results	Chemical Result	Result
1 Transparent plastic	Pb	mg/kg	BL	/	PASS
	Cd	mg/kg	BL	/	
	Hg	mg/kg	BL	/	
	Cr ⁶⁺	mg/kg	BL	/	
	PBBs	mg/kg	BL	/	
	PBDEs	mg/kg	BL	/	
	DIBP	mg/kg	/	N.D.	
	DBP	mg/kg	/	N.D.	
	BBP	mg/kg	/	N.D.	
	DEHP	mg/kg	/	N.D.	
2 White plastic	Pb	mg/kg	BL	/	PASS
	Cd	mg/kg	BL	/	
	Hg	mg/kg	BL	/	
	Cr ⁶⁺	mg/kg	BL	/	
	PBBs	mg/kg	BL	/	

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Sample description	Items	Unit	XRF Scan results	Chemical Result	Result
	PBDEs	mg/kg	BL	/	
	DIBP	mg/kg	/	N.D.	
	DBP	mg/kg	/	N.D.	
	BBP	mg/kg	/	N.D.	
	DEHP	mg/kg	/	N.D.	

Remark:

- 1) 1 mg/kg = 1ppm = 0.0001%
- 2) MDL = Method Detection limit
- 3) N.D. = Not detected (<MDL)
- 4) “/”= No detection required

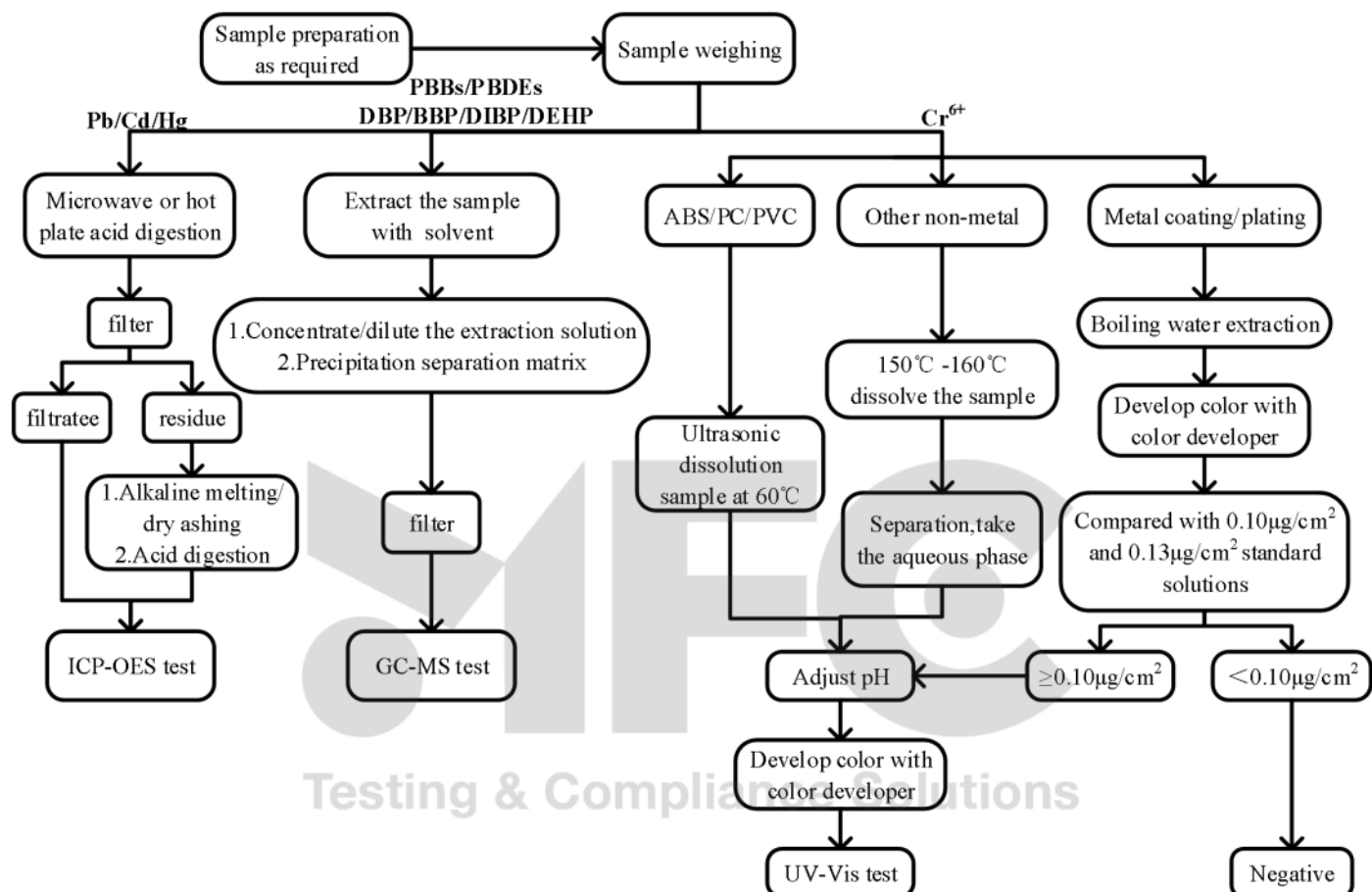


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Appendix

The sample is processed according to the following process



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Test Report

Statement

- 1.The information listed on the first page of this test report, except the date of receipt, test date, test result and test conclusion, is provided by the client. The client shall be responsible for the representativeness of sample and authenticity of materials, for which STAR-TECH shall bear no responsibilities.
- 2.The test conclusions of this report are only applicable to the test samples submitted for inspection, and the samples submitted for inspection are only kept for 30 days, and the company does not bear other joint and several liabilities other than the test results.
- 3.The test report shall take effect only with the seal of the company, and this report shall not be deleted or modified.
- 4.This report shall not be reproduced in whole or in part without the written authorization of the Company.
- 5.Objection should be issued in 15 days upon receiving the report, overdue opinion is inadmissible.
- 6.If the report is not stamped with the accreditation recognized seal, it will only be used for scientific research, education, and internal quality control activities, and is not used for the purpose of issuing supporting data to the society.

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