



Test Report

Report No.: PTC19111803701C-EN01

Issue Date: Nov. 27, 2019

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Applicant: SHENZHEN SHUANGYUAN PACKAGING MATERIAL CO.,LTD
Address: No. 6, Binhe Road, Shouli Village, Pingdi Street Center Community, Longgang Area, Shenzhen, Guangdong, China

The following merchandise was (were) submitted and identified by client as:

Sample Name: wrapping film
Style No: LLDPE STRETCH FILM
Manufacturer: SHENZHEN SHUANGYUAN PACKAGING MATERIAL CO.,LTD
Address: No. 6, Binhe Road, Shouli Village, Pingdi Street Center Community, Longgang Area, Shenzhen, Guangdong, China
Sample Received Date: Nov. 19, 2019
Completed Date: Nov. 22, 2019

Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Submitted sample	RoHS Directive 2011/65/EU and its subsequent amendments regulation EU No.2015/863. - Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr ⁶⁺), PBBs and PBDEs, Phthalates (DBP, BBP,DEHP,DIBP)	PASS

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

Signed for and on Behalf of PTC



Frank Lin/ Laboratory manager
DongGuan Precise Testing and Certification Corp. Ltd.

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Test Result(s):

RoHS - Lead (Pb)/Cadmium(Cd)/Mercury(Hg)/Hexavalent Chromium(Cr⁶⁺)

Method: IEC62321-3-1:2013, IEC62321-5:2013, IEC62321-6:2015, IEC62321-4:2013+AMD1:2017, IEC 62321-7-1:2015, IEC 62321-7-2:2017, analyzed by AAS & ICP-AES & UV-Vis.

Test Item(s)	Pb	Cd	Hg	Cr ⁶⁺	Conclusion	
Limit (mg/kg)	1000	100	1000	1000		
Material No.	Result (mg/kg)				Conclusion	
1	N.D.	N.D.	N.D.	N.D.		PASS
2	N.D.	N.D.	N.D.	N.D.		PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (<RL).
 3. RL (Reporting Limit) = 5 mg/kg.
 4. "N" (Negative) = Absence of Cr⁶⁺.
 5. "P" (Positive) = Presence of Cr⁶⁺: the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

RoHS - PBBs & PBDEs

Method: IEC 62321-6:2015, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Test Item(s)	Limit (mg/kg)	Result (mg/kg)	
		1	2
PBBs	1000	N.D.	N.D.
Monobromobiphenyl	--	N.D.	N.D.
Dibromobiphenyl	--	N.D.	N.D.
Tribromobiphenyl	--	N.D.	N.D.
Tetrabromobiphenyl	--	N.D.	N.D.
Pentabromobiphenyl	--	N.D.	N.D.
Hexabromobiphenyl	--	N.D.	N.D.
Heptabromobiphenyl	--	N.D.	N.D.
Octabromobiphenyl	--	N.D.	N.D.
Nonabromobiphenyl	--	N.D.	N.D.
Decabromobiphenyl	--	N.D.	N.D.
PBDEs	1000	N.D.	N.D.

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Test Item(s)	Limit (mg/kg)	Result (mg/kg)	
		1	2
Monobromodiphenylether	--	N.D.	N.D.
Dibromodiphenylether	--	N.D.	N.D.
Tribromodiphenylether	--	N.D.	N.D.
Tetrabromodiphenylether	--	N.D.	N.D.
Pentabromodiphenylether	--	N.D.	N.D.
Hexabromodiphenylether	--	N.D.	N.D.
Heptabromodiphenylether	--	N.D.	N.D.
Octabromodiphenylether	--	N.D.	N.D.
Nonabromodiphenylether	--	N.D.	N.D.
Decabromodiphenylether	--	N.D.	N.D.
Conclusion		PASS	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 5mg/kg.

Test Result(s):

ROHS - Phthalates DIBP, DBP, BBP, DEHP

Method: IEC 62321-8: 2017, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Substances	DBP	BBP	DEHP	DIBP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit (mg/kg)	1000	1000	1000	1000	
RL (mg/kg)	50	50	50	50	
Material No.	Result (mg/kg)				
1	N.D.	N.D.	N.D.	N.D.	PASS
2	N.D.	N.D.	N.D.	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (<RL).
 3. RL=Reporting Limit.

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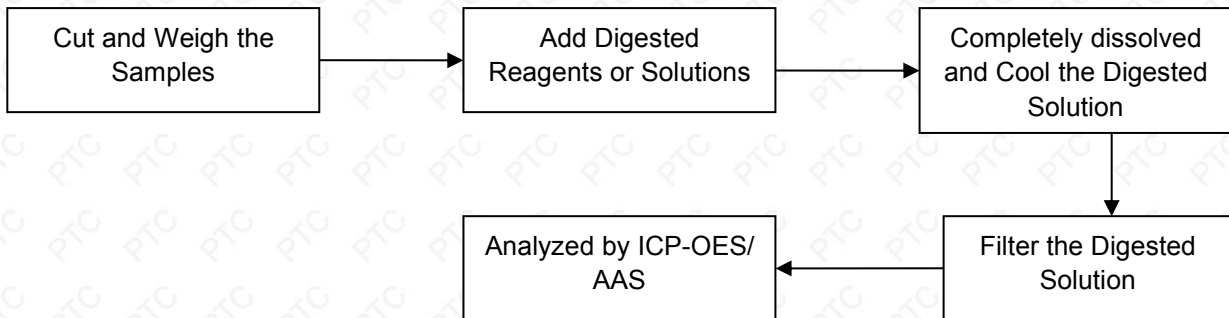
Test Material List

The following materials apply only to the samples submitted for phthalates testing.

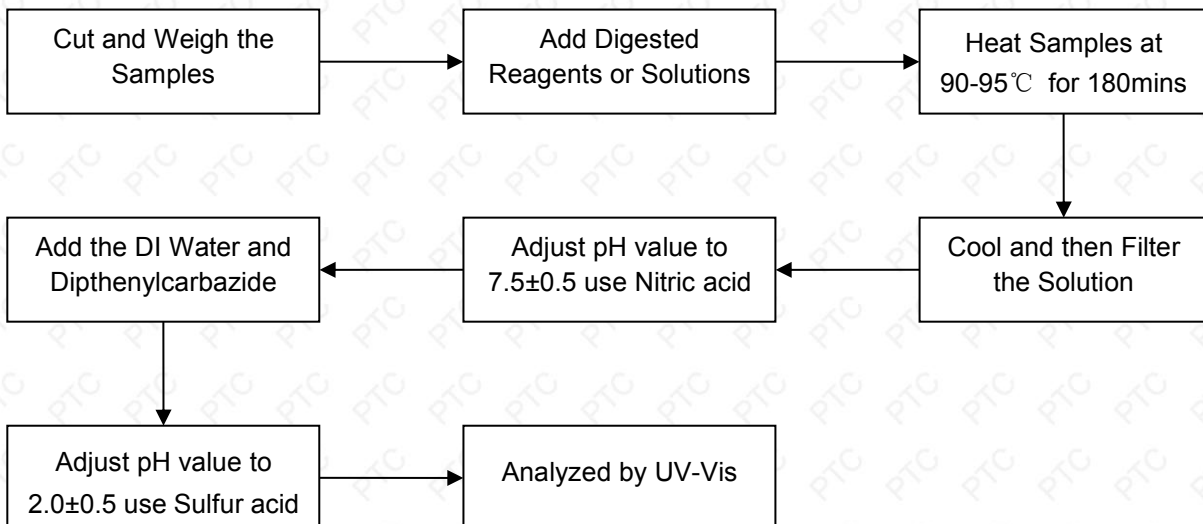
Material No.	Description(Location)
1	Transparent plastic (membrane)
2	Khaki paper (paper circle)

Test Process Flow:

1. Lead, Cadmium, Mercury



2. Hexavalent Chromium (Non-metal)



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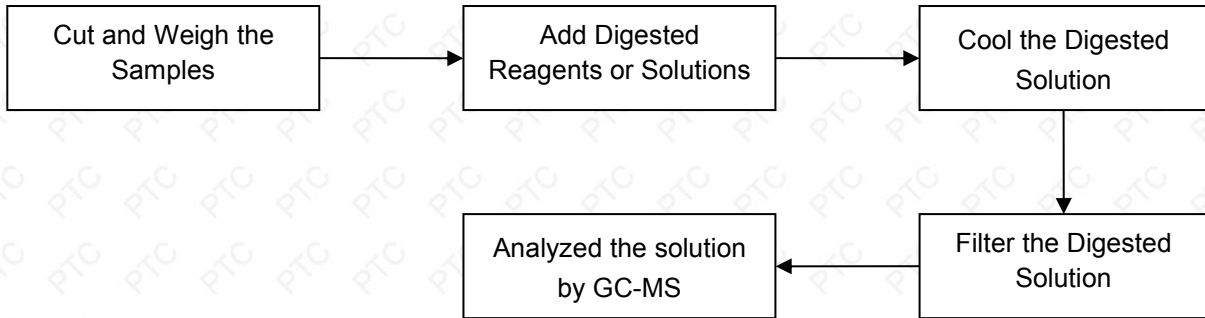
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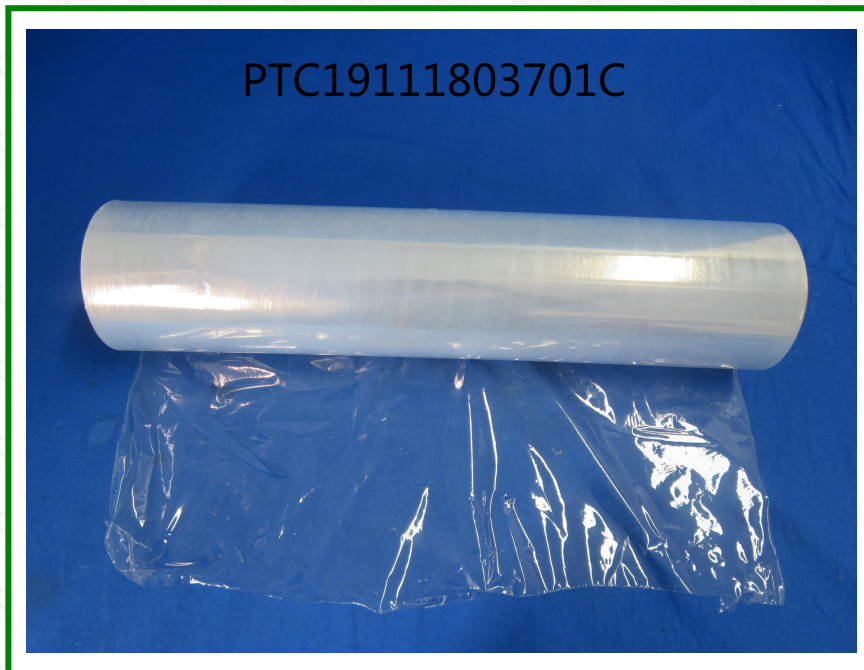
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3. PBBs & PBDEs, Phthalates



Photo(s) of Sample:



End of Report

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