



# Test Report

Report No.: HLF15012273E

Date: Dec 30, 2015

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**Applicant** : SHENZHEN TAMPRINTER PRINTING MACHINERY CO.,LTD.

**Address** : 111 Guanlan Avenue,Fucheng street,Longhua District, Shenzhen City

**The following sample(s) and sample information was/were submitted and identified by/on behalf of the client**

Sample Name : Pad printing silicone  
Sample Model : 4845AB, 506AB, 626AB  
Sample Lot : /  
Sample Received Date : Dec 25, 2015  
Test Completed Date : Dec 30, 2015  
Test Method : Refer to the next page(s).  
Test Results : Refer to the next page(s).

Test Requested	Conclusion
RoHS Directive 2011/65/EU Annex II – Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(CrVI), Polybrominated Biphenyls (PBBs), Polybrominated Biphenyl Ethers(PBDEs)	PASS
Halogen free requirement in Standard IEC 61249-2-21 – Halogen	PASS

Reviewed by:

Lab Senior Engineer

Authorized Signature:

Technology Manager

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**FLION TESTING TECHNOLOGIES**

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Tel : 86-0755-2724 8885

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## Pb, Cd, Hg, Cr(VI), PBBs, PBDEs Test Results:

Test Item	Test method/Instrument	MDL (mg/kg)	Result (mg/kg)	Limit (mg/kg)
			A+B	
Lead(Pb)	IEC62321-5:2013/ICP-OES	2	N.D.	1000
Cadmium(Cd)	IEC62321-5:2013/ICP-OES	2	N.D.	100
Mercury(Hg)	IEC62321-4:2013/ICP-OES	2	N.D.	1000
Hexavalent Chromium(CrVI)	IEC62321:2008 /UV-VIS	2	N.D.	1000
Sum of PBBs	-	-	N.D.	1000
Monobromobiphenyl	IEC62321:2008 /GC-MS	5	N.D.	--
Dibromobiphenyl	IEC62321:2008 /GC-MS	5	N.D.	--
Tribromobiphenyl	IEC62321:2008 /GC-MS	5	N.D.	--
Tetrabromobiphenyl	IEC62321:2008 /GC-MS	5	N.D.	--
Pentabromodiphenyl	IEC62321:2008 /GC-MS	5	N.D.	--
Hexabromobiphenyl	IEC62321:2008 /GC-MS	5	N.D.	--
Heptabromobiphenyl	IEC62321:2008 /GC-MS	5	N.D.	--
Octabromobiphenyl	IEC62321:2008 /GC-MS	5	N.D.	--
Nonabromobiphenyl	IEC62321:2008 /GC-MS	5	N.D.	--
Decabromobiphenyl	IEC62321:2008 /GC-MS	5	N.D.	--
Sum of PBDEs	-	-	N.D.	1000
Monobromobiphenyl ether	IEC62321:2008 /GC-MS	5	N.D.	--
Dibromobiphenyl ether	IEC62321:2008 /GC-MS	5	N.D.	--
Tribromobiphenyl ether	IEC62321:2008 /GC-MS	5	N.D.	--
Tetrabromobiphenyl ether	IEC62321:2008 /GC-MS	5	N.D.	--
Pentabromobiphenyl ether	IEC62321:2008 /GC-MS	5	N.D.	--
Hexabromobiphenyl ether	IEC62321:2008 /GC-MS	5	N.D.	--
Heptabromobiphenyl ether	IEC62321:2008 /GC-MS	5	N.D.	--
Octabromobiphenyl ether	IEC62321:2008 /GC-MS	5	N.D.	--
Nonabromobiphenyl ether	IEC62321:2008 /GC-MS	5	N.D.	--
Decabromobiphenyl ether	IEC62321:2008 /GC-MS	5	N.D.	--

Note:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) N.D. = Not Detected (less than MDL)
- (3) MDL = Method Detection Limit
- (4) "--" = Not Regulated

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## Halogen Test Results:

Test Item	Test Method / Instrument	MDL (mg/kg)	Result (mg/kg)	Limit (mg/kg)
			A+B	
Fluorine(F)	EN14582(2007) & EPA9056A(2007) / IC	50	N.D.	--
Chlorine(Cl)	EN14582(2007) & EPA9056A(2007) / IC	50	154	900
Bromine(Br)	EN14582(2007) & EPA9056A(2007) / IC	50	N.D.	900
Iodine(I)	EN14582(2007) & EPA9056A(2007) / IC	50	N.D.	--
Chlorine(Cl)+Bromine(Br)	-	-	154	1500

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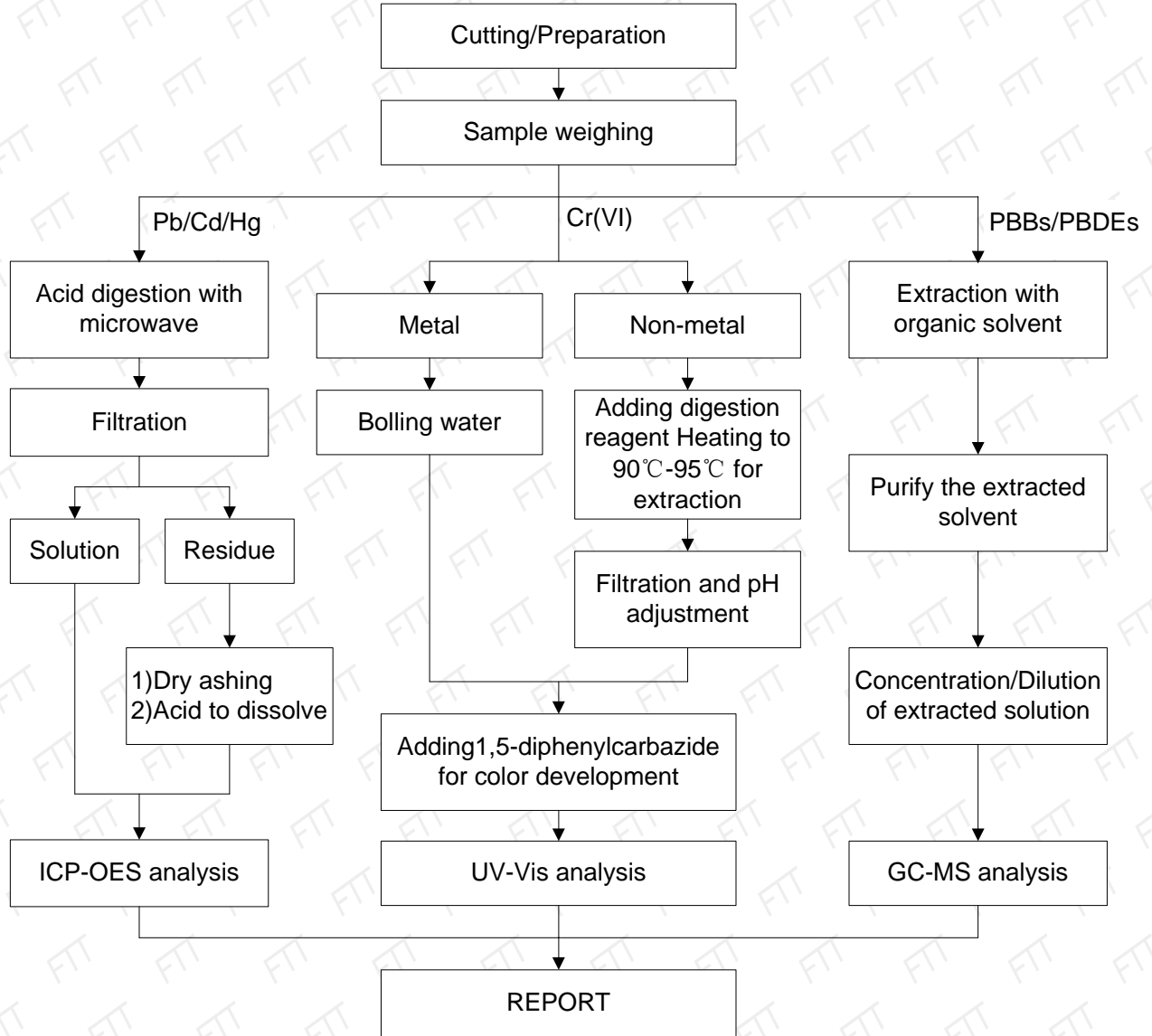
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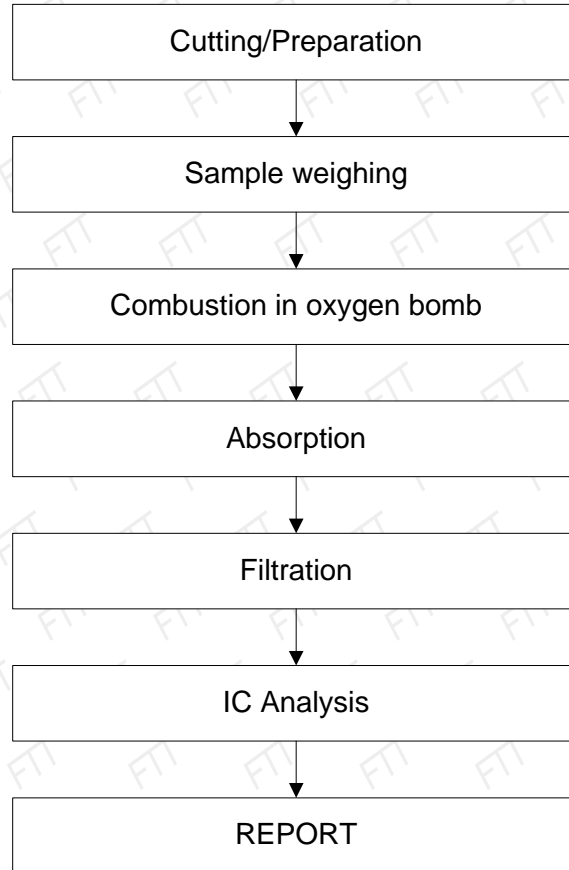
**Pb, Cd, Hg, Cr(VI), PBBs, PBDEs Testing Flow Chart:**



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## Halogen Testing Flow Chart:



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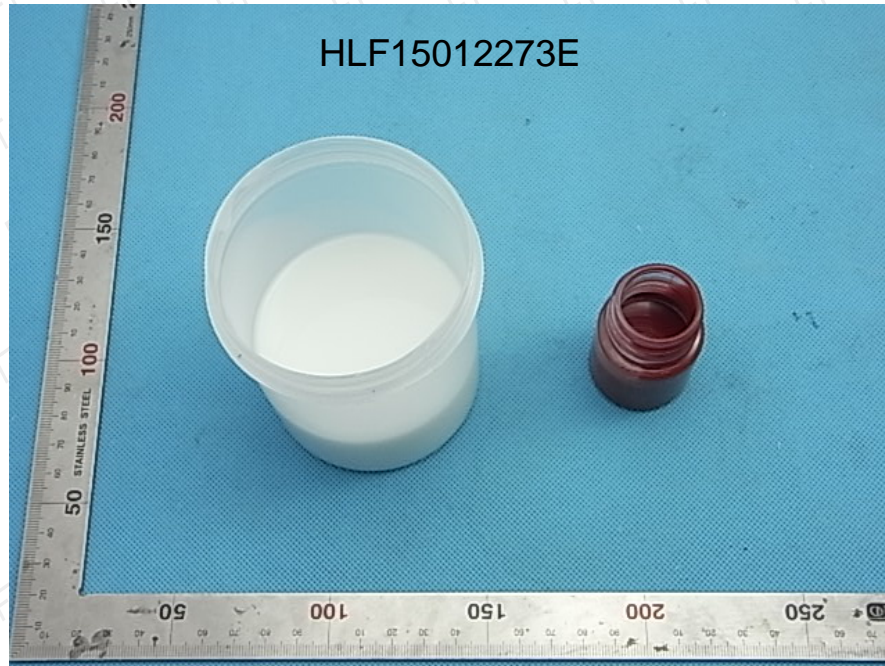
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## Test Part Description:

A: White glue

B: Red glue

## Sample Photo



Remark: According to client's requirement, samples provided by the white glue and red glue mixed according to the ratio of 9:1 sampling test

Note: The results shown in this report refer only to the sample(s) tested.

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

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