RoHS *TEST REPORT*

SAMPLE INFORMATION:

1. Sample Description:	Kapton HN-6051
2. Trade Mark:	华聿
3. Model, Specification, Grade:	PI-6051
4. Manufacturer:	**SHENZHEN HUAYU TECHNOLOGY DEVELOPMENT CO.,LTD**
5. Manufacturer Address:	Ro.904,Development CenterBuilding,Renmin South Road,Luohu District,Shenzhen
6. Applicant:	**SHENZHEN HUAYU TECHNOLOGY DEVELOPMENT CO.,LTD**
7. Applicant Address:	Ro.904,Development CenterBuilding,Renmin South Road,Luohu District,Shenzhen
8. Test Standards:	1. As specified by client, to screen Lead(Pb), Cadmium(Cd), Mercury(Hg), Chromium(Cr) and Bromine(Br) in the submitted sample(s) by XRF. 2. As specified by client, when screening results exceed the XRF screening limit in IEC 62321-3-1: 2013, further use of wet chemical methods are required to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs) in the submitted sample(s).

REMARKS:

1. The test data obtained and the report issued by laboratories other than TMC are provided by the applicant to us for data consolidation purposes. The report shall not be reproduced in part without written approval of us.
2. Characterization & Condition of sample: Normal.
3. Ambient Condition during Testing: (15-22) ℃ (20-40) %RH
4. Date of Issued: January 15, 2019

Approved by: _____
Certification Manager

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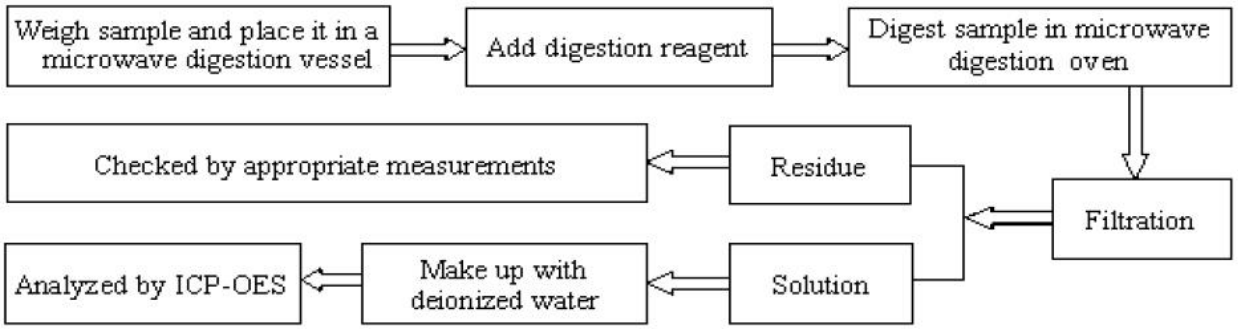
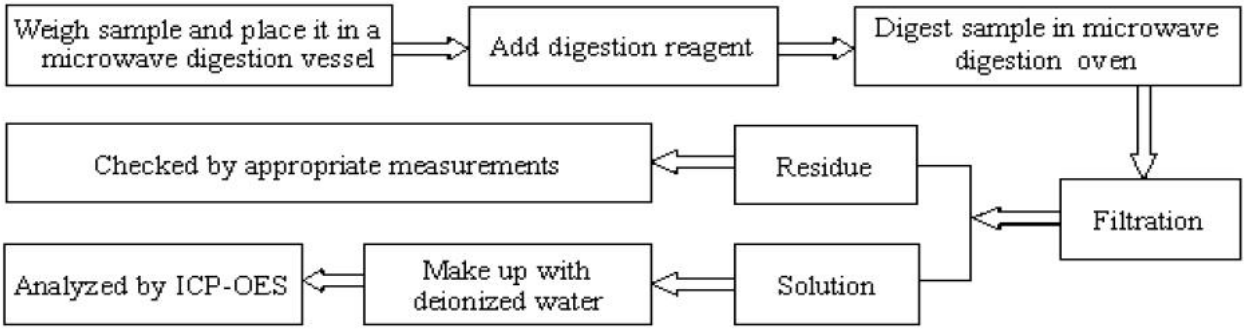
Test process

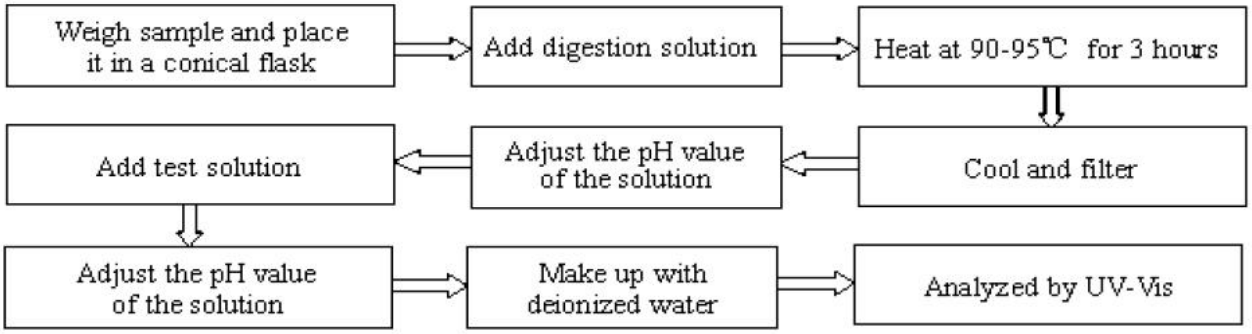
1. Lead(Pb), Cadmium(Cd)



2. Mercury(Hg)



3. Hexavalent Chromium (Cr(VI))



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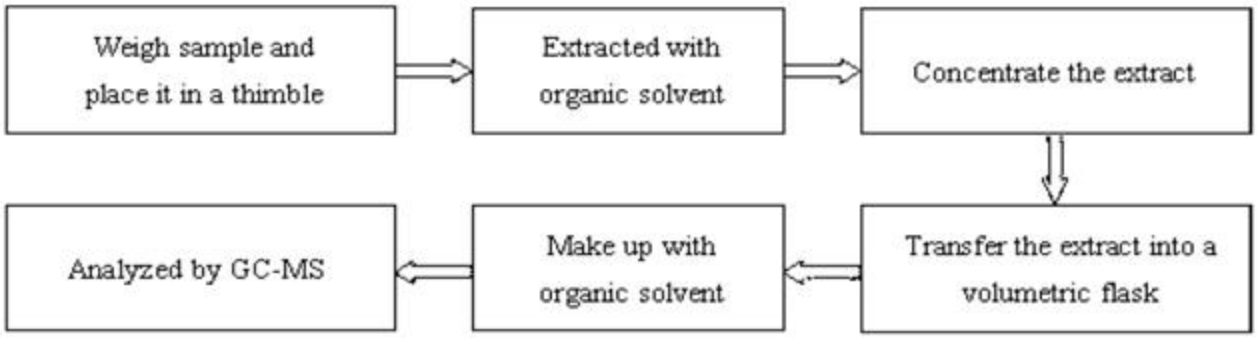
4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers(PBDEs) , DIBP, DBP, DEHP, BBP



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SAMPLE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Test Method (Reference)	Results of testing (mg/kg)	Chemical testing limit (mg/k)	Conclusion (P/F)
1	Kapton	Cd	P	IEC62321-5:2013,ICP-AES	N.D.	＜100	P
		Cr	P	IEC62321-7-1:2015 IEC62321-7-2:2017, UV-Vis	N.D.	＜1000	P
		Hg	P	IEC62321-4:2013,ICP-AES	N.D.	＜1000	P
		Pb	P	IEC62321-5:2013,ICP-AES	N.D.	＜1000	P
		PBBs	D	IEC62321-6:2015,GC-MS	N.D	＜1000	P
		PBDEs	D	IEC62321-6:2015,GC-MS	N.D.	＜1000	P

Remark:

(1) It is the result on total Br while test PBBs and PBDEs by EDXRF. It is the result on total Cr while test Hexavalent Chromium by EDXRF。

(2) Results are obtained by EDXRF for primary screening, and chemical testing by ICP (for Cd, Pb, Hg),UV-VIS (Cr(VI)) and GCMS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321:2013 (unit:mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	P≤70-3σ＜D＜130+3σ≤F	P≤70-3σ＜D＜130+3σ≤F	P≤50-3σ＜D＜150+3σ≤F
Pb	P≤700-3σ＜D＜1300+3σ≤F	P≤700-3σ＜D＜1300+3σ≤F	P≤500-3σ＜D＜1500+3σ≤F
Hg	P≤700-3σ＜D＜1300+3σ≤F	P≤700-3σ＜D＜1300+3σ≤F	P≤500-3σ＜D＜1500+3σ≤F
Br	P≤300-3σ＜D	------	P≤250-3σ＜D
Cr	P≤700-3σ＜D	P≤700-3σ＜D	P≤500-3σ＜D

P = PASS； F = FAIL； D = DETECTED；

(3) mg/kg = ppm；N.D. = NOT DETECTED（＜MDL）Pb, Cd, Hg：10 mg/kg; Cr(VI)：2mg/kg； PBBs, PBDEs：5mg/kg

(4) According to IEC 62321:2013, result on Cr(VI) for metal sample is shown as Positive/Negative.
Positive = Presence of Cr(VI) coating, Negative = Absence of Cr(VI) coating

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Sample photo:

Photo 1 General Appearance of the EUT

Photo 2 General Appearance of the EUT

TMC authenticate the photo on original report only

*** End of Report ***