



Test Report

Report No. : SZC18101781512-1E

Date: Oct. 20, 2018

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Applicant: Huizhou City Fu Wei Insulation Materials Technology Co., Ltd

Address: Huizhou City, Boluo County, Shiwan Town, iron field Shuai An group cold pond (Fu Wei Technology Park)

Report on the submitted sample(s) said to be:

Sample Name: FRP
Sample Description: Light green material
Sample No.: QT1810178151201
Sample Received Date: Oct. 17, 2018
Testing Period: Oct. 17, 2018 - Oct. 20, 2018

Test Method: Please refer to the following page(s).

Test Result: Please refer to the following page(s).

Test Requested:	Conclusion
1.As specified by client, to determine the Pb, Cd, Hg, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the submitted sample with reference to EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863.	PASS
2.As specified by client, to determine the Fluorine(F), Chlorine(Cl), Bromine(Br), Iodine(I) content in the submitted sample with reference to IEC61249-2-21.	PASS

Signed for and on behalf of HCT

Michael





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Test Result(s):

1. Pb, Cd, Hg, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP content

Unit: mg/kg

Test Items	Test Method/ Equipment	MDL	Content	EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863
Lead(Pb)	IEC 62321-5:2013. ICP-OES/AAS	2	N.D.	1000
Cadmium(Cd)		2	N.D.	100
Mercury(Hg)	IEC 62321-4:2013 +AMD1:2017. ICP-OES	2	N.D.	1000
Hexavalent Chromium(Cr(VI))	IEC 62321-5:2013/ IEC 62321-7-2:2017. ICP-OES/AAS UV-VIS	8	N.D.	1000
Mono-bromobiphenyl	IEC 62321-6:2015. GC-MS	5	N.D.	—
Di-bromobiphenyl		5	N.D.	
Tri-bromobiphenyl		5	N.D.	
Tetra-bromobiphenyl		5	N.D.	
Penta-bromobiphenyl		5	N.D.	
Hexa-bromobiphenyl		5	N.D.	
Hepta-bromobiphenyl		5	N.D.	
Octa-bromobiphenyl		5	N.D.	
Nona-bromobiphenyl		5	N.D.	
Deca-bromobiphenyl		5	N.D.	
Polybrominated Biphenyls(PBBs)		—	N.D.	1000
Mono-bromodiphenyl ether		5	N.D.	—
Di-bromodiphenyl ether		5	N.D.	
Tri-bromodiphenyl ether		5	N.D.	
Tetra-bromodiphenyl ether		5	N.D.	
Penta-bromodiphenyl ether		5	N.D.	
Hexa-bromodiphenyl ether		5	N.D.	
Hepta-bromodiphenyl ether		5	N.D.	
Octa-bromodiphenyl ether		5	N.D.	
Nona-bromodiphenyl ether		5	N.D.	
Deca-bromodiphenyl ether		5	N.D.	
Polybrominated DiphenylEthers(PBDEs)		—	N.D.	1000



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Test Items	Test Method/Equipment	MDL	Content	EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863
Dibutyl phthalate (DBP)	IEC 62321-8:2017, GC-MS	30	N.D.	1000
Butylbenzyl phthalate (BBP)		30	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)		30	N.D.	1000
Di-iso-butyl phthalate(DIBP)		30	N.D.	1000

2. Fluorine(F), Chlorine(Cl), Bromine(Br), Iodine(I) content

Unit: mg/kg

Test Items	Test Method/Equipment	MDL	Content	IEC61249-2-21 Limit
Fluorine(F)	EN 14582:2016, IC	50	N.D.	—
Chlorine(Cl)		50	144	900
Bromine(Br)		50	N.D.	900
Iodine(I)		50	N.D.	—
Total(Cl+Br)		—	144	1500

Note: mg/kg=ppm= parts per million

MDL=method detection limit

“—”=Not regulated

N.D.=not detected(less than method detection limit)

Results shown as N.D. are ignored in the sum calculation.

The detected Chromium (Cr) content is "N.D.", therefore, the Hexavalent Chromium (Cr (VI)) content is "N.D.",

No need for validation test of the Hexavalent Chromium (Cr (VI)).

If Chromium (Cr) content exceeds Hexavalent Chromium (Cr (VI)) method detection limit, Validation test of the Hexavalent Chromium (Cr (VI)) is required.

As specified by client, only test the light green material.



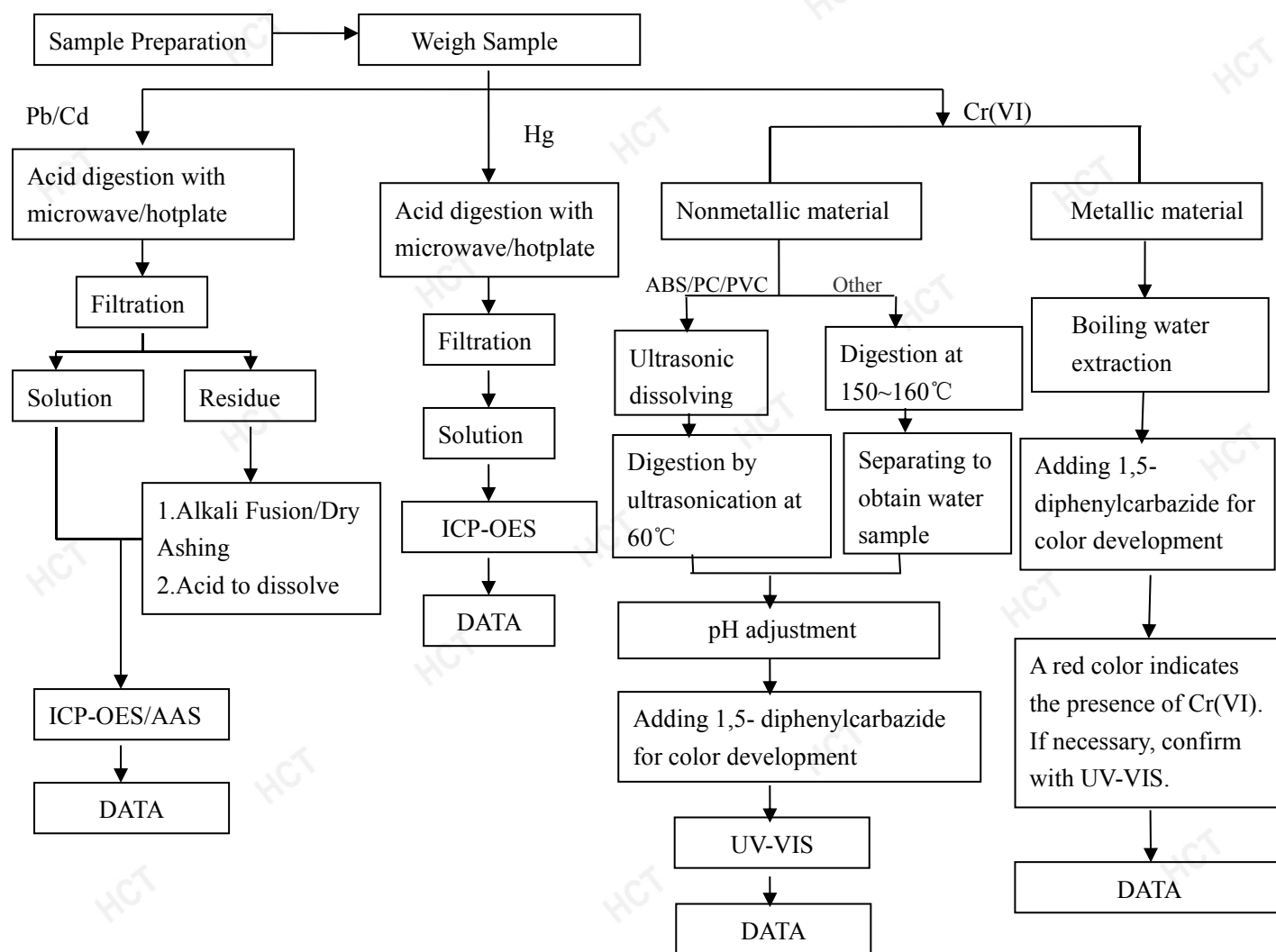
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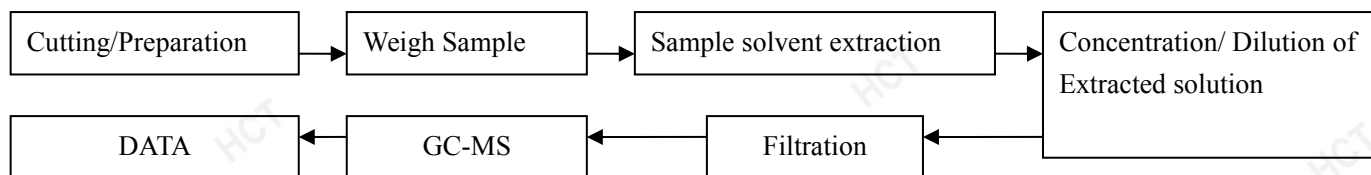
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Test Flow Chart (Pb, Cd, Hg, Cr(VI), PBBs, PBDEs)



These sample were dissolved totally by pre-conditioning method according to above flow chart(Cr(VI) test method excluded)

PBBs/PBDEs



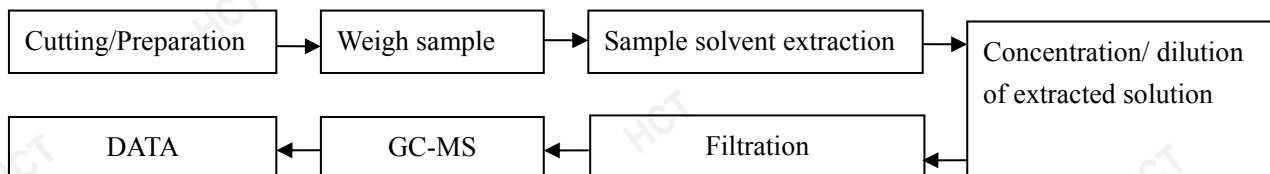
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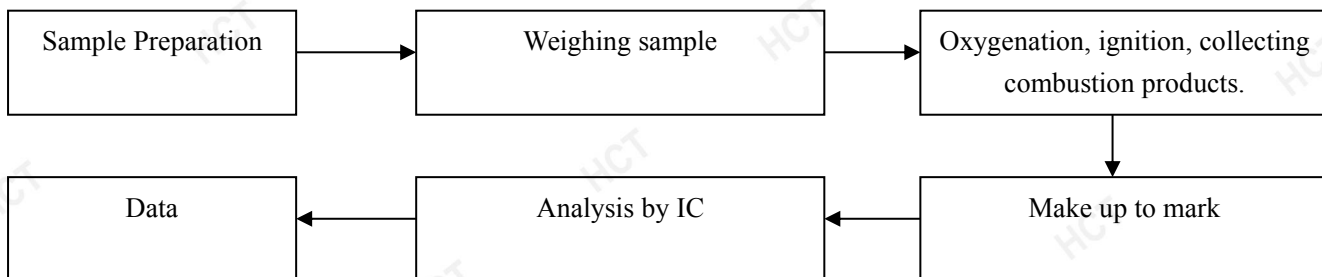
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Test Flow Chart (DBP, BBP, DEHP, DIBP)



Test Flow Chart(F, Cl, Br, I)



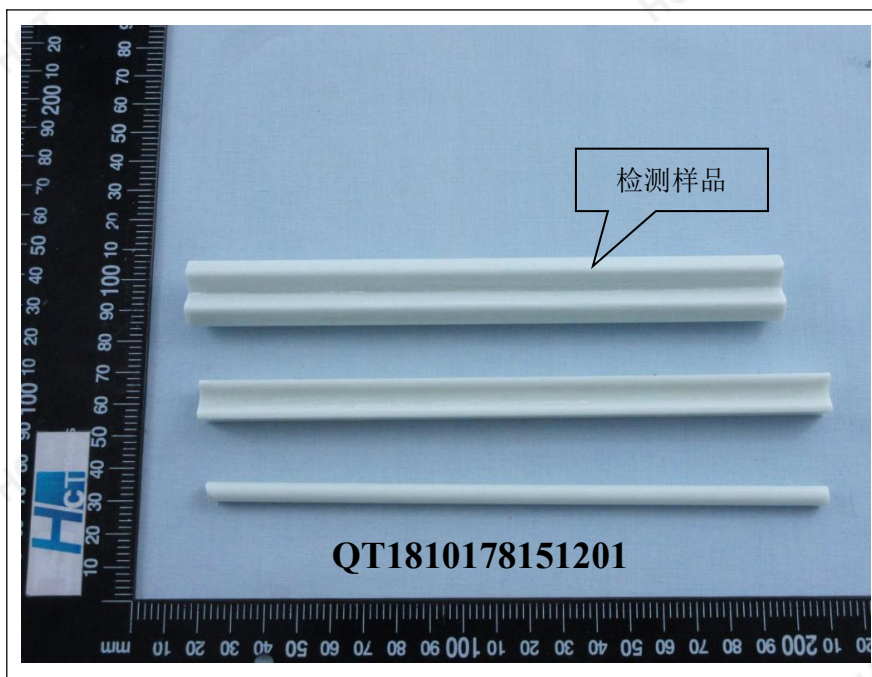
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The photo of the sample



End

This report will go into effect with HCT stamp. This report could not be revised. This report is only responsible for the test result of submitted samples. Without written authorization, any copy of this report for propaganda is invalid.

