



# Test Report

Report No. : SZC18110281513-5E

Date: Nov. 7, 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: PP insulation sheet

Sample Description: Black plastic

Sample Material: Series

Sample No.: QT1811028151305

Sample Received Date: Nov. 2, 2018

Testing Period: Nov. 2, 2018 - Nov. 7, 2018

**Test Requested:** As specified by client, to determine the Pb, Cd, Hg, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the submitted sample.

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

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

**Conclusion:** Based on the performed tests on submitted samples, the results of Pb, Cd, Hg, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863.

Signed for and on behalf of HCT

*Daniel*

Daniel



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**Test Result(s):**

Unit: mg/kg

Test Items	Test Method/ Equipment	MDL	Content	EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863
<b>Lead(Pb)</b>	IEC 62321-5:2013. ICP-OES/AAS	2	N.D.	1000
<b>Cadmium(Cd)</b>		2	N.D.	100
<b>Mercury(Hg)</b>	IEC 62321-4:2013 +AMD1:2017. ICP-OES	2	N.D.	1000
<b>Hexavalent Chromium(Cr(VI))</b>	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.	
<b>Polybrominated Biphenyls(PBBs)</b>		—	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.	
<b>Polybrominated DiphenylEthers(PBDEs)</b>		—	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

**Note:** mg/kg=ppm= parts per million

MDL=method detection limit

“—”=Not regulated

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

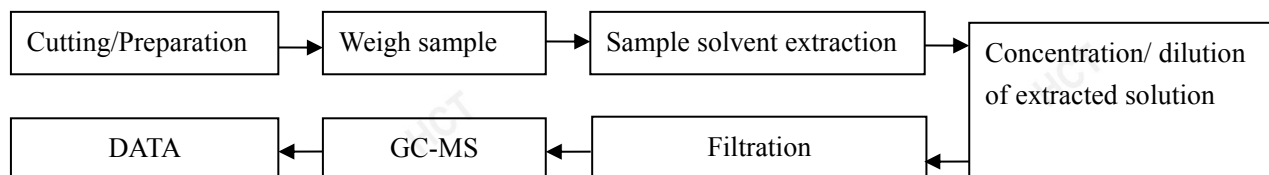
Results shown as N.D. are ignored in the sum calculation.

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.

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



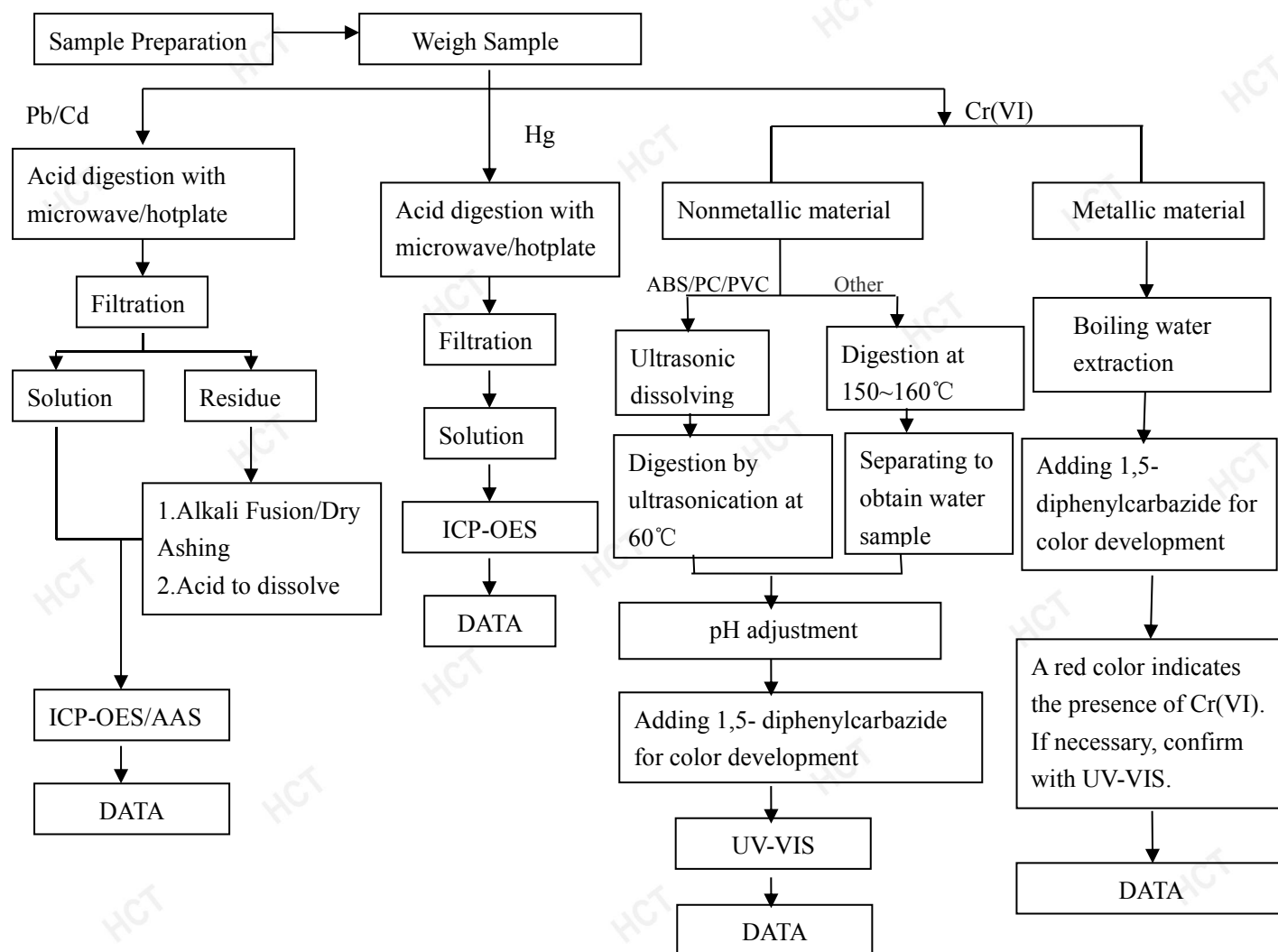
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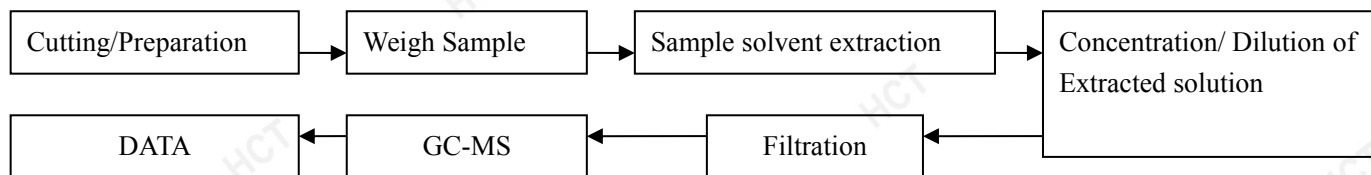
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## Test Flow Chart (Pb, Cd, Hg, Cr(VI), PBBs, PBDEs)



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

### PBBs/PBDEs



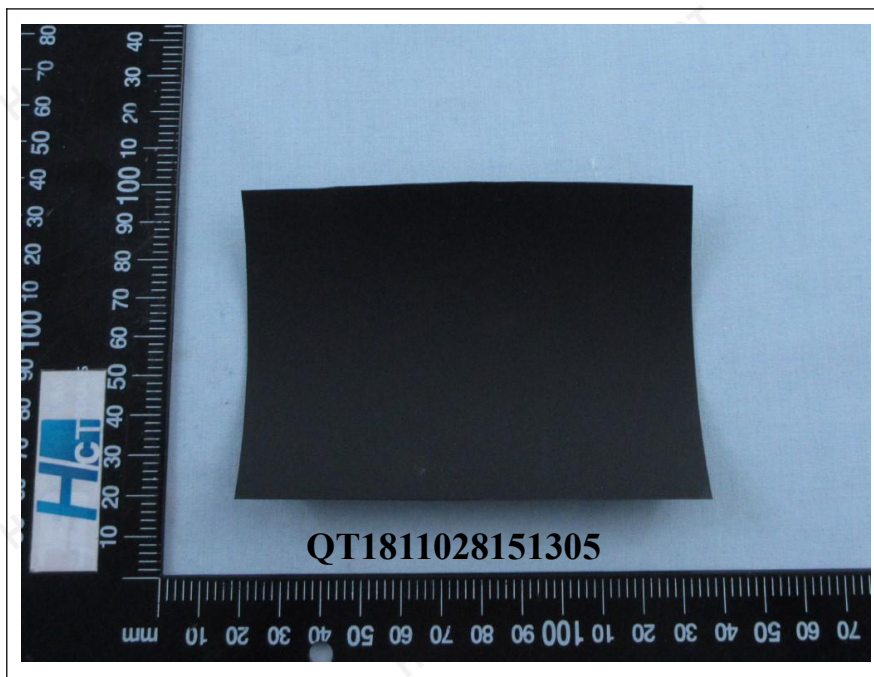
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## The photo of the sample



\*\*\*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.

