WALTEK | HCT
TESTING · CERTIFICATION · INSPECTION

WTH22H02021739X1C

# Test Report

**Report** Date:Mar. 5, 2022 Page 1 of 7

**Sample Information:**

Sample Name: PLA

Color: Natural, black, white, red, yellow, blue, green, gray, orange, purple

Sample Received Date: Feb. 21, 2022

Testing Period: Feb. 21, 2022 - Feb. 25, 2022

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

| **Test Requested:** | **Conclusion** |
|---|---|
| As specified by client, to determine the Pb, Cd, Hg, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the sample with reference to EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863. | PASS |

Signed for and on behalf of HCT

michael Huang

Michael Huang

# Test Report

**Report** Date:Mar. 5, 2022 Page 2 of 7

**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 |
|---|---|---|---|---|
| **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 |

# Test Report



| 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:**

"—" =Not regulated

mg/kg (milligram per kilogram) = ppm (parts per million)

MDL=method detection limit

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.

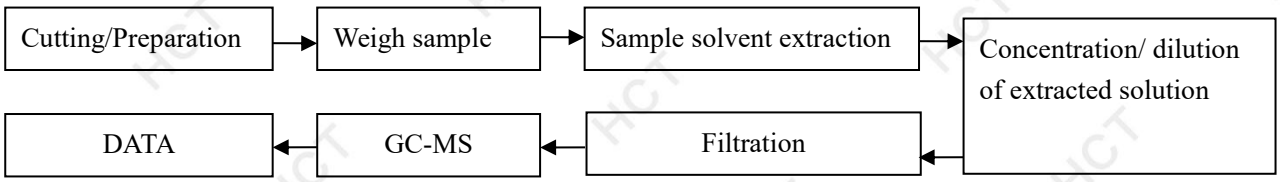
As specified by client, only test the designated sample.

This report replaces the report which report No. is WTH22H02021739C.

**Sample Description:**

| No. | HCT Sample ID | Test Part Description | |
|---|---|---|---|
| 1 | WTH22H02021739C~1842C.1 | 1 | Translucent plastic |

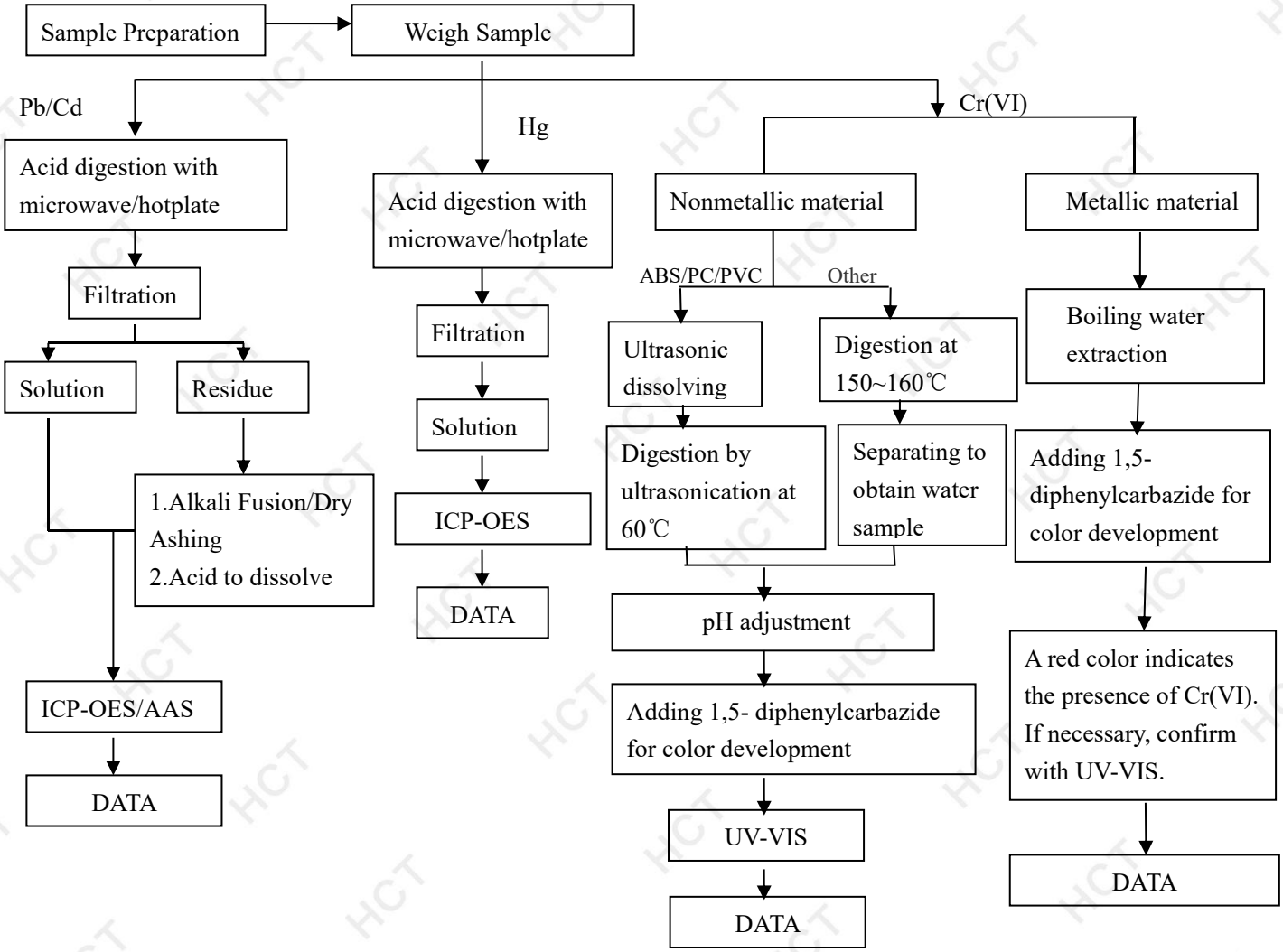
## Test Flow Chart (DBP, BBP, DEHP, DIBP)



# Test Report

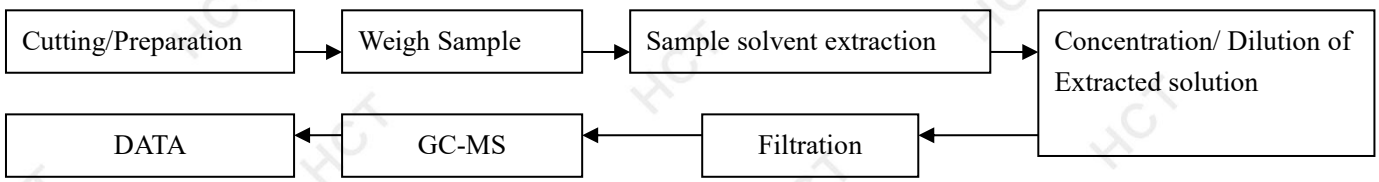


**Test Flow Chart (Pb, Cd, Hg, Cr(VI), PBBs, PBDEs)**




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

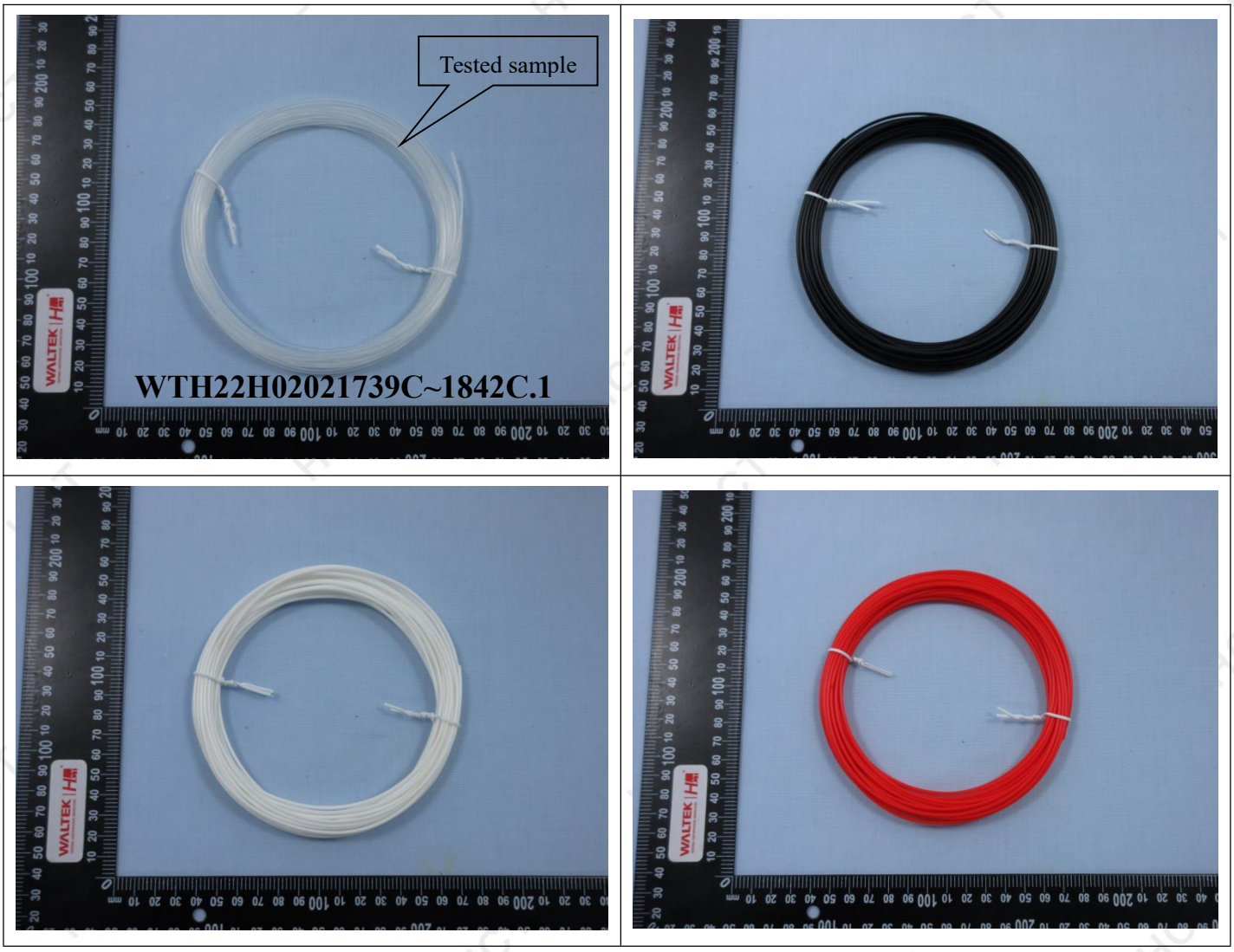
**PBBs/PBDEs**



# Test Report



## The photo of the sample

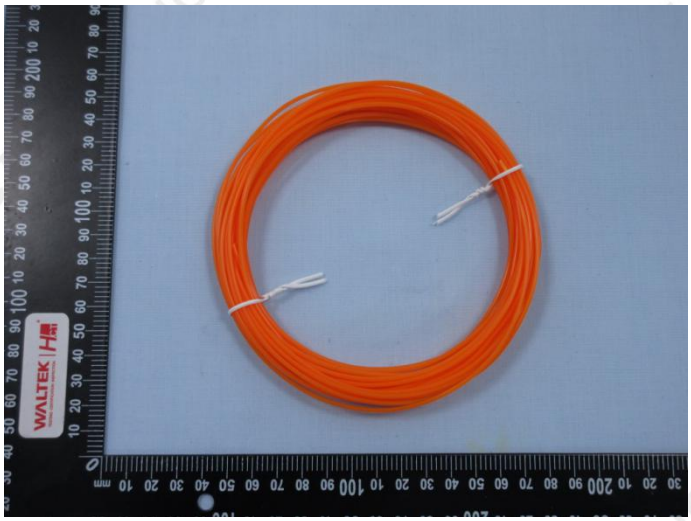


# Test Report



# Test Report





Statement:

1. This report is considered invalid without approved signature and special seal;
2. The Applicant name and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which HCT hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of HCT, this report can't be reproduced except in full.

***End***