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POLYPLASTICS TAIWAN CO., LTD.

NO. 13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

The following sample(s) was/were submitted and identified by/on behalf of the applicant as:

Sample Submitted By : POLYPLASTICS TAIWAN CO., LTD.

Sample Description : PPS

Style/Item No. : 1140A6 HD9100 / Lot No.83G4393

Color : HD9100 Sample Receiving Date : 2019/06/19

: 2019/06/19 to 2019/06/26 **Testing Period**

Test Requested

As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample.

Please refer to next page(s).

Test Result(s) : Please refer to next page(s).

Ray Chang Ph.D. / Ma Signed for and on beh **SGS Taiwan Limited**

Chemical Laboratory-Kaon



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Test Result(s)

PART NAME No.1 : HD9100 PPS

| Test Item(s) | Unit | Method | MDL | Result |
|----------------------------|--------|--|-----|--------|
| ` ' | | | | No.1 |
| Cadmium (Cd) | mg/kg | With reference to IEC 62321-5: 2013 and performed by ICP-AES. | 2 | n.d. |
| Lead (Pb) | mg/kg | With reference to IEC 62321-5: 2013 and performed by ICP-AES. | 2 | 7.47 |
| Mercury (Hg) | mg/kg | With reference to IEC 62321-4:2013+ AMD1:2017 and performed by ICP-AES. | 2 | n.d. |
| Hexavalent Chromium Cr(VI) | mg/kg | With reference to IEC 62321-7-2:2017 and performed by UV-VIS. | 8 | n.d. |
| Sum of PBBs | | With reference to IEC 62321-6: 2015 and performed by GC/MS. | - | n.d. |
| Monobromobiphenyl | | | 5 | n.d. |
| Dibromobiphenyl | | | 5 | n.d. |
| Tribromobiphenyl | | | 5 | n.d. |
| Tetrabromobiphenyl | | | 5 | n.d. |
| Pentabromobiphenyl | mg/kg | | 5 | n.d. |
| Hexabromobiphenyl | | | 5 | n.d. |
| Heptabromobiphenyl | | | 5 | n.d. |
| Octabromobiphenyl | | | 5 | n.d. |
| Nonabromobiphenyl | | | 5 | n.d. |
| Decabromobiphenyl | \neg | | 5 | n.d. |
| Sum of PBDEs | | With reference to IEC 62321-6: 2015 and performed by GC/MS. | - | n.d. |
| Monobromodiphenyl ether | | | 5 | n.d. |
| Dibromodiphenyl ether | | | 5 | n.d. |
| Tribromodiphenyl ether | | | 5 | n.d. |
| Tetrabromodiphenyl ether | | | 5 | n.d. |
| Pentabromodiphenyl ether | mg/kg | | 5 | n.d. |
| Hexabromodiphenyl ether | | | 5 | n.d. |
| Heptabromodiphenyl ether | | | 5 | n.d. |
| Octabromodiphenyl ether | | | 5 | n.d. |
| Nonabromodiphenyl ether | | | 5 | n.d. |
| Decabromodiphenyl ether | \neg | | 5 | n.d. |



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| Test Item(s) | Unit | Method | MDL | Result |
|--|-------|--|-----|--------|
| | | | | No.1 |
| DIBP (Di-isobutyl phthalate) | | | 50 | n.d. |
| (CAS No.: 84-69-5) | | | | |
| DBP (Dibutyl phthalate) | | | 50 | n.d. |
| (CAS No.: 84-74-2) | mg/kg | With reference to IEC 62321-8:2017. Analysis was performed by GC/MS. | | |
| BBP (Butyl Benzyl phthalate) | | | 50 | n.d. |
| (CAS No.: 85-68-7) | | | | |
| DEHP (Di- (2-ethylhexyl) phthalate) | | | 50 | n.d. |
| (CAS No.: 117-81-7) | | | | |
| Halogen | | | | |
| Halogen-Fluorine (F) (CAS No.: | | | 50 | 973 |
| 14762-94-8) | | | | |
| Halogen-Chlorine (CI) (CAS No.: | | | 50 | 2330 |
| 22537-15-1) | | | | |
| Halama Branica (Pr) (OAO Na | mg/kg | With reference to BS EN 14582:2016. | 50 | |
| Halogen-Bromine (Br) (CAS No.: 10097-32-2) | | Analysis was performed by IC. | 50 | n.d. |
| , | | | | |
| Halogen-lodine (I) (CAS No.: 14362- | | | 50 | n.d. |
| 44-8) | | | | |
| | | | | |



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Note:

1. mg/kg = ppm; 0.1wt% = 1000ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. " - " = Not Regulated



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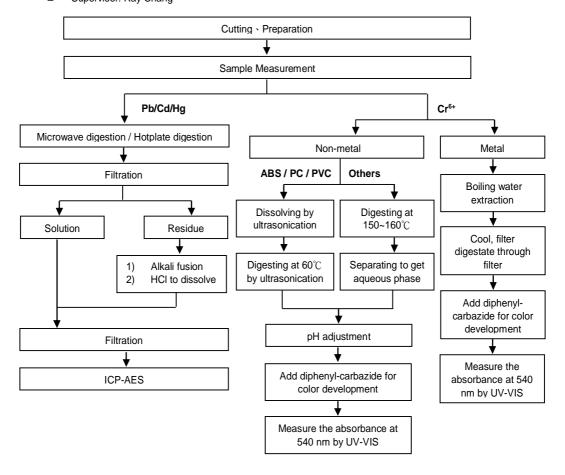
POLYPLASTICS TAIWAN CO., LTD.

NO. 13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)

Technician: Jony Liu Supervisor: Ray Chang





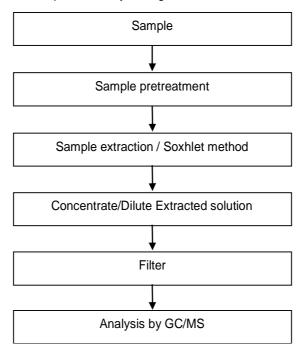
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POLYPLASTICS TAIWAN CO., LTD.

NO. 13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

PBB/PBDE analytical FLOW CHART

Technician: Dorothy Chen Supervisor: Ray Chang





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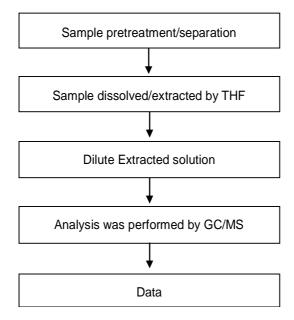
POLYPLASTICS TAIWAN CO., LTD.

NO. 13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

Analytical flow chart of phthalate content

Technician: Dorothy Chen Supervisor: Ray Chang

[Test method: IEC 62321-8]





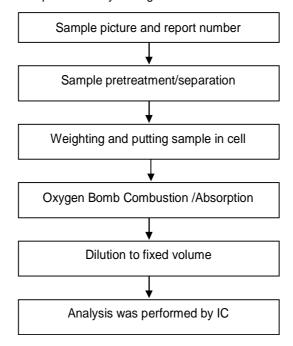
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POLYPLASTICS TAIWAN CO., LTD.

NO. 13, JIANYE RD., DALIAO DIST., KAOHSIUNG CITY 831, TAIWAN (R.O.C.)

Analytical flow chart of halogen content

Technician: Jean Hung Supervisor: Ray Chang





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* The tested sample / part is marked by an arrow if it's shown on the photo. *

KA/2019/61465



** End of Report **

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