



No. CRSSA/16034-1/17 Date : 05/01/2018 CRS Ref. CRSSA/17/3298/Toray

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TORAY PLASTICS (M) SDN BHD 2628, MK. 1, SPT., LORONG PERUSAHAAN 4 PRAI FREE INDUSTRIAL ZONE 13600 PRAI, PENANG, MALAYSIA

The following merchandise was (were) submitted and identified by the client as:

| Sample Description Sample Receiving Date Testing Period | : | TOYOLAC _{TM} TA10 X02 29/12/2017 29/12/2017 to 05/01/2018 |
|---|---|--|
| Test Requested | : | Selected test(s) as requested by client |
| Test Method | : | Please refer to next page(s). |
| Test Results | : | Please refer to next page(s). |
| Analysts | : | Tan Mei Ann & Ling Yii Ming |

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Test results:

Test Part Description :

Sample Description

TOYOLACTM TA10 X02

RoHS Directive 2011/65/EU Annex II

:

| Test Item(s): | Unit | Test Method | Results | MDL | Limit |
|----------------------------|-------|--|---------|-----|-------|
| Cadmium (Cd) | mg/kg | With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES) | N.D. | 2 | 100 |
| Lead (Pb) | mg/kg | With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES) | N.D. | 2 | 1000 |
| Mercury (Hg) | mg/kg | With reference to IEC 62321-4:2013/AMD 1:2017 (Determination of Hg by ICP-OES) | N.D. | 2 | 1000 |
| Hexavalent Chromium (CrVI) | mg/kg | With reference to IEC 62321-7-2:2017 (Determination of CrVI by UV-Vis) | N.D. | 8 | 1000 |
| Sum of PBBs | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | - | 1000 |
| Monobromobiphenyl | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Dibromobiphenyl | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Tribromobiphenyl | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Tetrabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Pentabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Hexabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Heptabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Octabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Nonabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Decabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | 5 | - |

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| Sum of PBDEs | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS) | N.D. | - | 1000 |
|--------------------------|-------|--|------|---|------|
| Monobromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS) | N.D. | 5 | - |
| Dibromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS) | N.D. | 5 | - |
| Tribromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS) | N.D. | 5 | - |
| Tetrabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS) | N.D. | 5 | - |
| Pentabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS) | N.D. | 5 | - |
| Hexabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS) | N.D. | 5 | - |
| Heptabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS) | N.D. | 5 | - |
| Octabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS) | N.D. | 5 | - |
| Nonabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS) | N.D. | 5 | - |
| Decabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS) | N.D. | 5 | - |

(a) mg/kg = ppm ; (0.1wt% = 1000ppm) Note : (b) N.D. = Not Detected (c) MDL = Method Detection Limit

(d) - = not regulated

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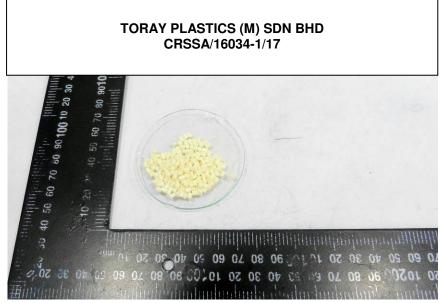


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Test Part Description :

Sample Description : TOYOLACTM TA10 X02



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| Test Report No. CRSSA/16034-1/17 CRS Ref. CRSSA/17/32 | 0 | | | |
|---|--|--|--|--|
| 1. <u>DETERMINATION OF CADMIUM CONTENT BY</u> <u>IEC 62321-5 2013</u> Sample Receiving and Registration ↓ Cut sample in small pieces ↓ Weight sample (0.2-0.5g) into digestion vessel ↓ Acid digestion (Microwave) ↓ "Totally Dissolved" ↓ Filtration ↓ Analyses by ICP | 2. <u>DETERMINATION OF LEAD CONTENT BY</u> <u>IEC 62321-5 2013</u> Sample Receiving and Registration ↓ Cut sample in small pieces ↓ Weight sample (0.2-0.5g) into digestion vessel ↓ Acid digestion (Microwave) ↓ Totally Dissolved" ↓ Filtration ↓ Analyses by ICP | | | |
| 3. <u>DETERMINATION OF MERCURY CONTENT BY</u> <u>IEC 62321-4 2013/AMD 1 2017</u> Sample Receiving and Registration Cut sample in small pieces Weight sample (0.1-0.5g) into digestion vessel Acid digestion (Microwave) "Totally Dissolved" Filtration Analyses by ICP | 4a. <u>DETERMINATION OF HEXAVALENT CHROMIUM</u> <u>BY IEC 62321-7-2 2017 (Other Materials)</u> Sample Preparation ↓ Digestion at 150~160 °C ↓ Separating To Obtain Aqueous Phase ↓ pH Adjustment ↓ Add Diphenyl-Carbazide for Color Development ↓ Analyses by UV- Spectrophotometer (540 nm) | | | |
| 4b. DETERMINATION OF HEXAVALENT CHROMIUM BY IEC 62321-7-2 2017 (Soluble Polymers) Sample Preparation | 5. DETERMINATION OF PBB/PBDE WITH GC-MS BY IEC 62321-6 2015 Cut sample in small pieces Weight sample (0.5-4.0g) into extraction thimble Soxhlet Extraction with Toluene Filter through 0.45 um membrane filter Analyses by GC-MS (with appropriate dilution) | | | |

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TORAY PLASTICS (M) SDN BHD 2628, MK. 1, SPT., LORONG PERUSAHAAN 4 PRAI FREE INDUSTRIAL ZONE 13600 PRAI, PENANG, MALAYSIA

The following merchandise was (were) submitted and identified by the client as:

| Sample Description Sample Receiving Date Testing Period | : | ТОYOLACтм ТА10 Х02 29/12/2017 29/12/2017 to 05/01/2018 |
|---|---|--|
| Test Requested | : | Selected test(s) as requested by client |
| Test Method | : | Please refer to next page(s). |
| Test Results | : | Please refer to next page(s). |
| Analyst | : | Ling Yii Ming |

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Test result:

Test Part Description :

Sample Description

TOYOLACTM TA10 X02

RoHS Directive 2011/65/EU Annex II (amended by Directive (EU) 2015/863)

:

| Test Item(s): | Unit | Test Method | Results | MDL | Limit |
|--|-------|---|---------|-----|-------|
| Bis (2-ethylhexyl) phthalate (DEHP) (CAS No. 117-81-7) | mg/kg | With reference to IEC 62321-8:2017. Analysis was performed by GC/MS. | N.D. | 50 | 1000 |
| Butyl benzyl phthalate (BBP) (CAS No. 85-68-7) | mg/kg | With reference to IEC 62321-8:2017. Analysis was performed by GC/MS. | N.D. | 50 | 1000 |
| Dibutyl phthalate (DBP) (CAS No. 84-74-2) | mg/kg | With reference to IEC 62321-8:2017. Analysis was performed by GC/MS. | N.D. | 50 | 1000 |
| Diisobutyl phthalate (DIBP) (CAS No. 84-69-5) | mg/kg | With reference to IEC 62321-8:2017. Analysis was performed by GC/MS. | N.D. | 50 | 1000 |

(a) mg/kg = ppm ; (0.1wt% = 1000ppm) Note :

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) - = Not regulated

(e) On 4 June 2015, Commission Directive (EU) 2015/863 was published in the Official Journal of the European Union (OJEU) to include the phthalates BBP, DBP, DEHP and DIBP into ANNEX II of the Rohs Recast Directive. The new law restricts each phthalate to no more than 0.1% in each homogeneous material of an electrical product.

(f) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

- (g) The restriction of DEHP, BBP, DBP and DIBP shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before 22 July 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 July 2021.
- (h)The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

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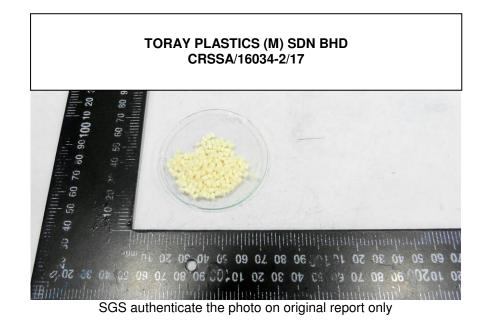


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Test Part Description :

Sample Description : TOYOLAC_{TM} TA10 X02



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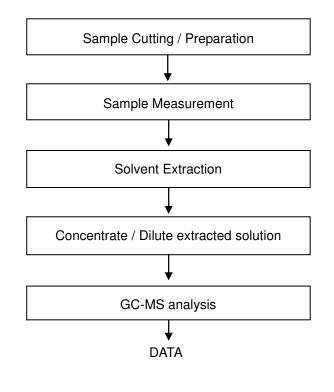
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Flowchart for Phthalates Measurement

Method: IEC62321



****End of Report****

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