

# Test Report

No. LPCI/04081/09  
CTS Ref. CTS/09/0973/Toray

Date : 19/03/2009

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**TORAY PLASTIC (MALAYSIA) 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 : "TOYOLAC" 100 MPM  
Sample Receiving Date : 11/03/2009  
Testing Period : 11/03/2009 to 19/03/2009

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Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : (1) With reference to BS EN 1122:2001, Method B for Cadmium Content.  
Analysis was performed by ICP  
(2) With reference to EPA Method 3050B for Lead Content.  
Analysis was performed by ICP  
(3) With reference to EPA Method 3052 for Mercury Content.  
Analysis was performed by ICP  
(4) With reference to EPA Method 3060A & 7196A for Hexavalent Chromium.  
Analysis was performed by UV/Vis Spectrophotometry.  
(5) With reference to EPA Method 3540C/3550B for PBB / PBDE Content.  
Analysis was performed by GC/MS.

Test Results : Please refer to next page.

Analysts : Lim Meng Hoe & Jocelyn Christmas

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Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	Result	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	N.D.	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	2
<b>Sum of Polybrominated Biphenyl (PBBs)</b>	(5)	N.D.	-
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
<b>Sum of Polybrominated Diphenylethers (PBDEs)</b>		N.D.	-
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D.	5
Octabromodiphenyl ether		N.D.	5
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5

Test Part Description :

As per page 3

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### Test Part Description :

Sample Description : "TOYOLAC" 100 MPM

**TORAY PLASTIC (MALAYSIA) SDN. BHD.  
LPCI/04081/09**



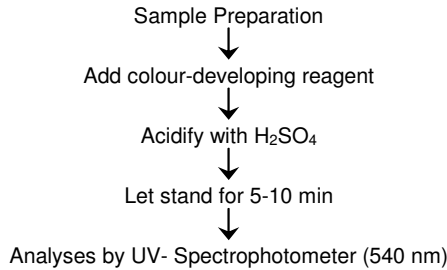
Note : (a) mg/kg = ppm  
(b) N.D. = Not Detected  
(c) MDL = Method Detection Limit

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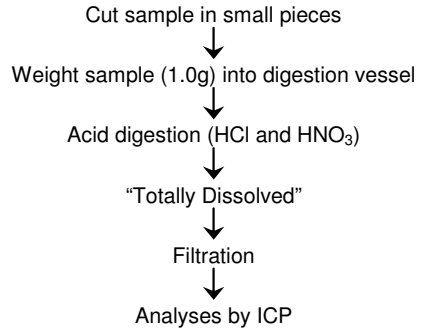
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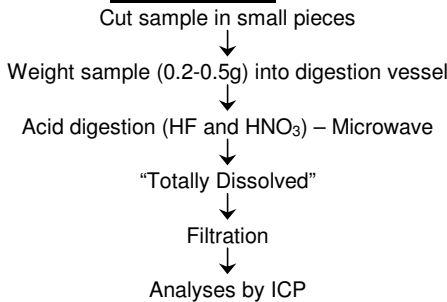
**1. DETERMINATION OF HEXAVALENT CHROMIUM BY METHOD US EPA 3060A/7196A**



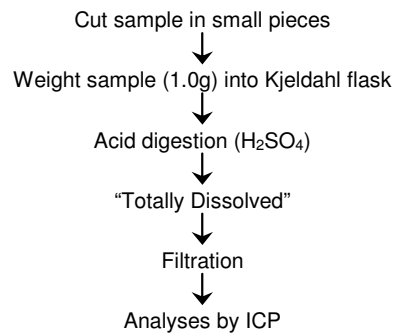
**2. DETERMINATION OF LEAD CONTENT BY US EPA 3050B**



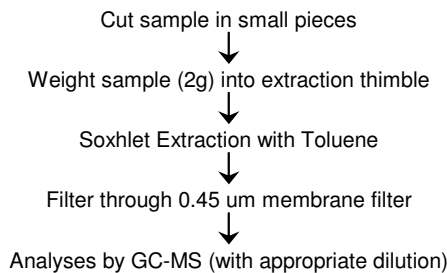
**3. MICROWAVE ASSISTED ACID DIGESTION OF SILICEOUS AND ORGANICALLY BASED METRICES (US EPA 3052)**



**4. PLASTIC – DETERMINATION OF CADMIUM – WET DECOMPOSITION METHOD (EN 1122) – METHOD B**

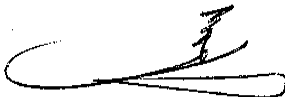


**5. DETERMINATION OF PBB/PBDE WITH GC-MS**



\*\*\*\* End of Report \*\*\*\*

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