

# Test Report

No. CRSSA/05859/18  
CRS Ref. CRSSA/18/1187/Pacific

Date : 15/05/2018

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**PACIFIC ADHESIVE SYSTEMS (M) SDN BHD  
NO. 2, 4 & 6, LINTANG BERINGIN 10, DIAMOND VALLEY INDUSTRIES PARK,  
JALAN PERMATANG DAMAR LAUT,  
11960 BATU MAUNG, PENANG, MALAYSIA**

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

Sample Description : Dow Corning 1-4173 (H047127004)  
Sample Receiving Date : 04/05/2018  
Testing Period : 04/05/2018 to 15/05/2018

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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 : Dow Corning 1-4173 (H047127004)

## 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
<b>Sum of PBBs</b>	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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<b>Sum of PBDEs</b>	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	-

- Note : (a) mg/kg = ppm ; (0.1wt% = 1000ppm)  
 (b) N.D. = Not Detected  
 (c) MDL = Method Detection Limit  
 (d) - = not regulated  
 (e) Testing based on dry basis for PBB & PBDE

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### Test Part Description :

Sample Description : Dow Corning 1-4173 (H047127004)



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<p><b>1. DETERMINATION OF CADMIUM CONTENT BY IEC 62321-5 2013</b></p> <p>Sample Receiving and Registration ↓ Sample Preparation ↓ Weight sample (0.2-0.5g) into digestion vessel ↓ Acid digestion (Microwave) ↓ "Totally Dissolved" ↓ Filtration ↓ Analyses by ICP</p>	<p><b>2. DETERMINATION OF LEAD CONTENT BY IEC 62321-5 2013</b></p> <p>Sample Receiving and Registration ↓ Sample Preparation ↓ Weight sample (0.2-0.5g) into digestion vessel ↓ Acid digestion (Microwave) ↓ "Totally Dissolved" ↓ Filtration ↓ Analyses by ICP</p>
<p><b>3. DETERMINATION OF MERCURY CONTENT BY IEC 62321-4 2013/AMD 1 2017</b></p> <p>Sample Receiving and Registration ↓ Sample Preparation ↓ Weight sample (0.1-0.5g) into digestion vessel ↓ Acid digestion (Microwave) ↓ "Totally Dissolved" ↓ Filtration ↓ Analyses by ICP</p>	<p><b>4a. DETERMINATION OF HEXAVALENT CHROMIUM BY IEC 62321-7-2 2017 (Other Materials)</b></p> <p>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)</p>
<p><b>4b. DETERMINATION OF HEXAVALENT CHROMIUM BY IEC 62321-7-2 2017 (Soluble Polymers)</b></p> <p>Sample Preparation ↓ Add Digestion Solution ↓ Ultrasonicate Sample ↓ pH Adjustment ↓ Add Diphenyl-Carbazide for Color Development ↓ Analyses by UV- Spectrophotometer (540 nm)</p>	<p><b>5. DETERMINATION OF PBB/PBDE WITH GC-MS BY IEC 62321-6 2015</b></p> <p>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)</p>

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

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