

**TEST REPORT:**

No. CPSA/251170346-CB86272

Job Ref : C&amp;P/2025-10-02-025

**REPORTED DATE:** 24 Nov 2025**RESONAC MATERIALS MALAYSIA SDN BHD**

NO. 2512, JALAN PERUSAHAAN BARU,  
KAWASAN PERUSAHAAN PERAI,  
13600 PERAI, PENANG, MALAYSIA.

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

SAMPLE DESCRIPTION : EPOXY MOLDING COMPOUND  
CEL-8240HF 16 SERIES

SAMPLE RECEIVED : 02 Oct 2025

TESTING PERIOD : 02 Oct 2025 to 24 Nov 2025

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TEST REQUESTED : Selected test(s) as requested by customer

TEST METHOD : - PLEASE REFER TO NEXT PAGE(S) -

TEST RESULTS : - PLEASE REFER TO NEXT PAGE(S) -

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SGS (MALAYSIA) SDN BHD

TAY SIAM PINE  
TECHNICAL MANAGER  
IKM NO. M/3452/6047/11/T2

**5PUUSD7M**

Page 1 of 7

Test Report Form No.: SGS/TR/CP/001, Ver: 2.0, Effective Date: 15/03/2021

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**TEST RESULTS:**
**Test Part Description**

Sample Description: -PLEASE REFER TO PAGE 1-

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Parameter(s):	Unit	Test Method	Result	MDL	Limit
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.	N.D.	2	Max 100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.	N.D.	2	Max 1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-OES.	N.D.	2	Max 1000
Hexavalent Chromium (CrVI)	mg/kg	With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.	N.D.	8	Max 1000
Sum of PBBs	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	-	Max 1000
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Dibromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Tribromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Pentabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Hexabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Heptabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Octabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Nonabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Decabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-

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Page 2 of 7

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### Test Part Description

Sample Description: -PLEASE REFER TO PAGE 1-

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Test Parameter(s):	Unit	Test Method	Result	MDL	Limit
Sum of PBDEs	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	-	Max 1000
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-

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Test Report Form No.: SGS/TR/CP/001, Ver: 2.0, Effective Date: 15/03/2021

Page 3 of 7

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## TEST RESULTS:

### Test Part Description

Sample Description: -PLEASE REFER TO PAGE 1-

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Parameter(s):	Unit	Test Method	Result	MDL	Limit
Dibutyl phthalate (DBP) (CAS No. 84-74-2)	mg/kg	With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.	N.D.	50	Max 1000
Benzyl butyl phthalate (BBP) (CAS No. 85-68-7)	mg/kg	With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.	N.D.	50	Max 1000
Di(2-ethylhexyl) phthalate (DEHP) (CAS No. 117-81-7)	mg/kg	With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.	N.D.	50	Max 1000
Diisobutyl phthalate (DIBP) (CAS No. 84-69-5)	mg/kg	With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.	N.D.	50	Max 1000

- Note :
- (a) mg/kg = ppm ; (0.1wt% = 1000ppm)
  - (b) N.D. = Not Detected
  - (c) MDL = Method Detection Limit
  - (d) - = Not regulated
  - (e) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
  - (f) IEC 62321 series is equivalent to EN 62321 series

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Page 4 of 7

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Sample Description: -PLEASE REFER TO PAGE 1-



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Page 5 of 7

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### 1. DETERMINATION OF CADMIUM CONTENT BY IEC 62321-5:2013

Sample Receiving and Registration  
↓  
Sample Preparation  
↓  
Weigh sample (0.2-0.5g) into digestion vessel  
↓  
Acid digestion (Microwave)  
↓  
"Totally Dissolved"  
↓  
Filtration  
↓  
Analyses by ICP

### 2. DETERMINATION OF LEAD CONTENT BY IEC 62321-5:2013

Sample Receiving and Registration  
↓  
Sample Preparation  
↓  
Weigh sample (0.2-0.5g) into digestion vessel  
↓  
Acid digestion (Microwave)  
↓  
"Totally Dissolved"  
↓  
Filtration  
↓  
Analyses by ICP

### 3. DETERMINATION OF MERCURY CONTENT BY IEC 62321-4:2013/AMD 1:2017

Sample Receiving and Registration  
↓  
Sample Preparation  
↓  
Weigh sample (0.1-0.5g) into digestion vessel  
↓  
Acid digestion (Microwave)  
↓  
"Totally Dissolved"  
↓  
Filtration  
↓  
Analyses by ICP

### 4a. DETERMINATION OF HEXAVALENT CHROMIUM BY IEC 62321-7-2:2017 (Other Materials)

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  
↓  
Add Digestion Solution  
↓  
Ultrasonicate Sample  
↓  
pH Adjustment  
↓  
Add Diphenyl-Carbazide for Colour Development  
↓  
Analyses by UV- Spectrophotometer (540 nm)

### 5. DETERMINATION OF PBB/PBDE WITH GC-MS BY IEC 62321-6:2015

Sample Preparation  
↓  
Weigh sample (0.5-4.0g) into extraction thimble  
↓  
Soxhlet Extraction with Toluene  
↓  
Filter through 0.45 µm membrane filter  
↓  
Analyses by GC-MS (with appropriate dilution)

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Page 6 of 7

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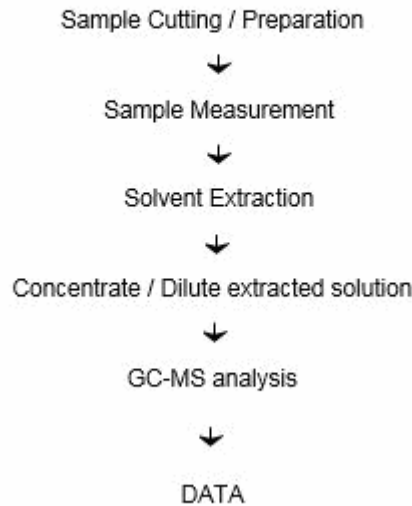
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No. CPSA/251170346-CB86272

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### DETERMINATION OF PHTHALATES WITH GC-MS BY IEC 62321-8:2017



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Page 7 of 7

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