

No.: ETR22C01129

Date: 14-Dec-2022

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SHOWA DENKO MATERIALS CO., LTD.

1500 OGAWA, CHIKUSEI-SHI IBARAKI, 308-8521, JAPAN

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

Sample Submitted By : SHOWA DENKO MATERIALS CO., LTD.

Sample Name : COPPER CLAD LAMINATES WITHOUT COPPER (PLASTIC PART OF MCL) /

**GLASS EPOXY PREPREG** 

Style/Item No. : MCL-E-679FGB(R) PLASTIC PART / MCL-E-679FG(R) PLASTIC PART /

MCL-E-679FG(RM) PLASTIC PART / MCL-E-679FGB PLASTIC PART /

MCL-E-679FG PLASTIC PART / GEA-679FG(R) / GEA-679FG

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Sample Receiving Date

07-Dec-2022

**Testing Period** 

**Test Requested** 

07-Dec-2022 to 14-Dec-2022

As specified by client, with reference to RoHS 2011/65/EU Annex II and amending

Directive (EU) 2015/863 to determine DBP, BBP, DEHP, DIBP contents in the

submitted sample(s).

**Test Results**: Please refer to following pages.

**Conclusion**: Based on the performed tests on submitted sample(s), the test results of DBP, BBP,

DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending

Annex II to Directive 2011/65/EU.

Troy Chang / Department Manager Signed for and on behalf of SGS TAIWAN LTD.
Chemical Laboratory - Taipei



PIN CODE: 24F55AE5

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**Test Part Description** 

No.1 : BLACK SHEET

#### Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Butyl benzyl phthalate (BBP) (CAS No.: 85-68-7)	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	1000
Dibutyl phthalate (DBP) (CAS No.: 84-74-2)		mg/kg	50	n.d.	1000
Di-(2-ethylhexyl) phthalate (DEHP) (CAS No.: 117-81-7)	analysis was performed by GC/MS.	mg/kg	50	n.d.	1000
Diisobutyl phthalate (DIBP) (CAS No.: 84-69-5)		mg/kg	50	n.d.	1000

#### Note:

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.

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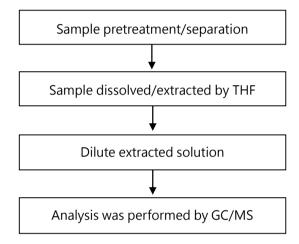


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### Analytical flow chart - Phthalate

[Test method: IEC 62321-8]



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

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\*\* End of Report \*\*

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