

## Test Report

No. : CE/2020/11786

Date : 2020/01/14

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HITACHI CHEMICAL CO., LTD.

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

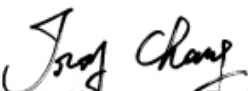
The following sample(s) was/were submitted and identified by/on behalf of the applicant as :

Sample Submitted By : HITACHI CHEMICAL CO., LTD.  
Sample Description : 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  
Sample Receiving Date : 2020/01/07  
Testing Period : 2020/01/07 to 2020/01/14

=====  
**Test Requested** : 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 Method** : Please refer to following pages.

**Test Result(s)** : Please refer to following pages.

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



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## Test Result(s)

PART NAME No.1 : BLACK SHEET

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

## Note :

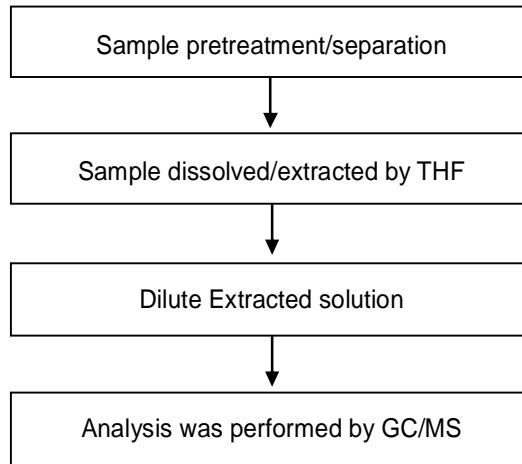
1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected = below MDL

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### Analytical flow chart - Phthalate

- Technician: Yaling Tu
- Supervisor: Troy Chang

**【Test method: IEC 62321-8】**

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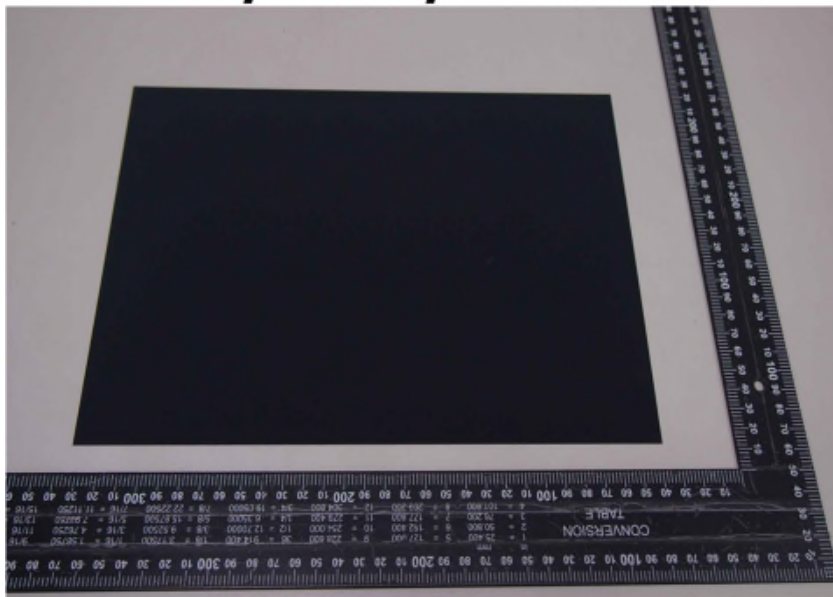
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\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

### CE/2020/11786



\*\* End of Report \*\*

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