

## Test Report

No. : CE/2020/37132

Date : 2020/04/09

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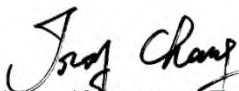
HITACHI CHEMICAL CO., LTD.

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

The following samples was/were submitted and identified by/on behalf of the applicant as :

Sample Submitted By : HITACHI CHEMICAL CO., LTD.  
Sample Description : GLASS EPOXY PREPREG / COPPER CLAD LAMINATES WITHOUT COPPER (PLASTIC PART OF MCL)  
Style/Item No. : GEA-705G / MCL-E-705G PLASTIC PART/ GEA-705G(L) / MCL-E-705G(L) PLASTIC PART/ MCL-E-705G(LH) PLASTIC PART / MCL-E-705G(X) PLASTIC PART / MCL-E-705G(W) PLASTIC PART / MCL-E-705G(WH) PLASTIC PART  
Sample Receiving Date : 2020/03/31  
Testing Period : 2020/03/31 to 2020/04/09

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

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



PIN CODE: 553DE1A1

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## Test Result(s)

PART NAME No.1 : YELLOW SHEET

Test Item(s)	Unit	Method	MDL	Result
				No.1
Antimony (Sb)	mg/kg	With reference to US EPA 3052 (1996). Analysis was performed by ICP-OES.	2	n.d.
<b>Halogen</b>				
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582 (2016). Analysis was performed by IC.	50	519
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg		50	n.d.
Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg		50	n.d.
Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		50	n.d.

### Note :

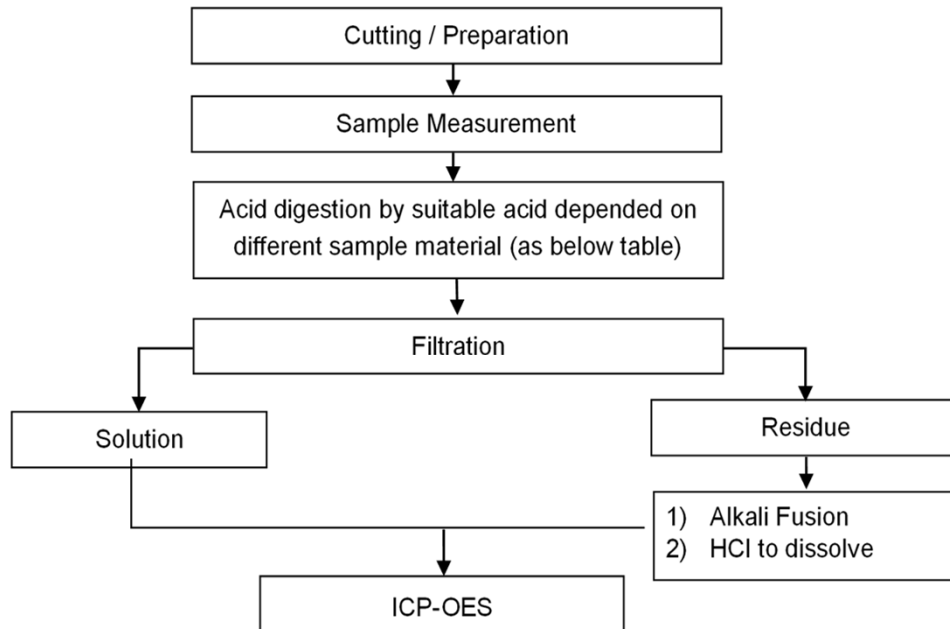
1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected = less than MDL

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## Flow Chart of digestion for the elements analysis performed by ICP-OES

These samples were dissolved totally by pre-conditioning method according to below flow chart.

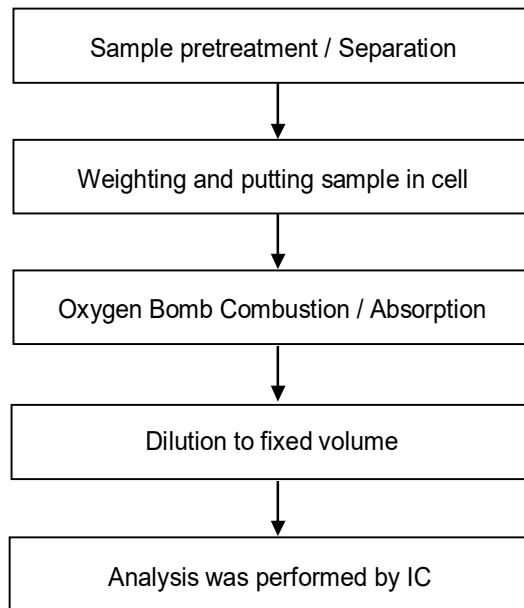


Steel, copper, aluminum, solder	Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
Glass	HNO <sub>3</sub> /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO <sub>3</sub>
Plastic	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
Others	Added appropriate reagent to total digestion

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### Analytical flow chart - Halogen



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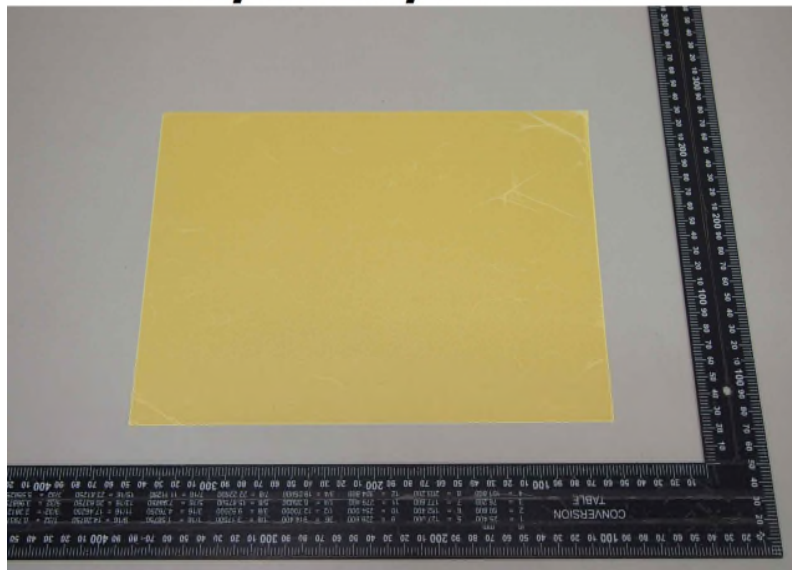
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\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

### CE/2020/37132



\*\* End of Report \*\*

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