

No.: ETR21306600 Date: 01-Apr-2021

SHOWA DENKO MATERIALS 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 : SHOWA DENKO MATERIALS CO., LTD.

Sample Name : 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 : 25-Mar-2021

Testing Period : 25-Mar-2021 to 01-Apr-2021

Test Requested: Testing item(s) is/are specified by client. Please refer to result table for

testing item(s).

Test Results: Please refer to following pages.





Page: 1 of 5

PIN CODE: 37DDB1D4

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Test Part Description

No.1 : YELLOW SHEET

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result
				No.1
Fluorine (F) (CAS No.: 14762-94-8)		mg/kg	50	474
Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582: 2016,	mg/kg	50	72.4
Bromine (Br) (CAS No.: 10097-32-2)	analysis was performed by IC.	mg/kg	50	n.d.
lodine (I) (CAS No.: 14362-44-8)		mg/kg	50	n.d.
Antimony (Sb) (CAS No.: 7440-36-0)	With reference to US EPA 3052: 1996,	mg/kg	2	n.d.
	analysis was performed by ICP-OES.			

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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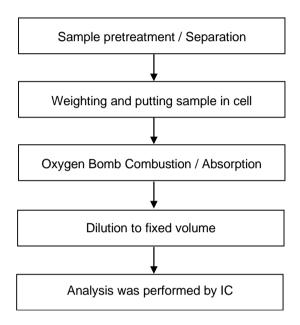
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Analytical flow chart - Halogen



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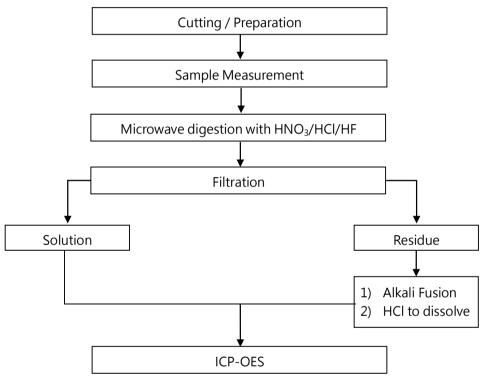


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Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart. 【Reference method: US EPA 3051A、US EPA 3052】



* US EPA 3051A method does not add HF.

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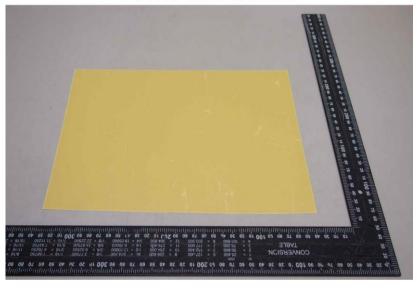


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* The tested sample / part is marked by an arrow if it's shown on the photo. *

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** End of Report **

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