

MICRO VCM TEST REQUEST AND DATA SHEET PER ASTM E-595-93

(Requestor please read, then furnish all information above asterisks.)

Requested by: **MaryJane Stephenson**

Phone: **301-286-2321**

Date: **04/08/08**

Material Identification (product name, number, description, classification, etc.)

Douglas 7113/1470 Epoxy

Manufacturer of Material (Name, City and State Address): **Douglas Electrical**

Material application (general usage, i.e. adhesive, coating, potting, etc.): **Adhesive**

J. O. Number/Project Name: **GOES-R ABI**

Request Infra-Red Spectra? YES NO

Originator Source/Code (other than Code 541): **Douglas Electrical**

Indicate processing required by GSFC Materials personnel. Include the recipe, cure(s), and special instructions to be performed.

Test As Received

If material is to be tested in the "as received" condition, without further processing required, indicate in full the past history, recipe, cure(s), post cure(s), nomenclature of components, etc.

Mix Ratio: 100:4.5 +/-0.5

Cure: 4 hours @180F, Air

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CVCM test specimen preparation and description: **Cut up & placed in boats**

Bar Position-CVCM Test Number	30775 (4)	30776 (5)	30777 (6)
Initial mass, holder and specimen, gm	0.254679	0.272446	0.268225
Mass of holder, gm	0.032157	0.032433	0.031021
Initial specimen mass @ 50%RH, gm	0.222522	0.240013	0.237204
Final mass, holder & specimen, gm	0.253784	0.271848	0.267436
Total mass loss, specimen, gm	0.000895	0.000598	0.000789
Percent TML, specimen	0.40%	0.25%	0.33%
Average value TML	*****	0.33%	*****
Mass after 50%RH re-soak, 23 C, 24hr, gm	0.254164	0.272098	0.267754
Total mass, water vapor regain, gm	0.000380	0.000250	0.000318
Percent water vapor regain	0.17%	0.10%	0.13%
Average value WVR @ 50%RH	*****	0.14%	*****
Initial mass, collector, gm	1.721416	1.724901	1.726276
Final mass, collector, gm	1.721419	1.724903	1.726277
Collected mass - CVCM, gm	0.000003	0.000002	0.000001
Percent CVCM	0.00%	0.00%	0.00%
Average Value CVCM	*****	0.00%	*****

Remarks: CVCM (unweighable) on separator plate to _____ mm diameter. CVCM appearance as follows: **X** is not detectable on collector plates.

thin; heavy; _____ color; transparent; _____ colored liquid;

opaque; matte; interference fringes; foggy; distorts eye reflection; smooth; smoky; splotchy; partially opaque;

clear liquid; liquid runs in excess; Deposit covers _____ % of collector disc.

Specimen appearance after test:

No Visible Change

Test started **4/29/08**

Test completed: **4/30/08**

Period **24** Hrs.

Pressure **1.4X10⁻⁵** Torr

Specimen Temp. **124.8** °C

Collector Temp. **24.8** °C

Analyst **Dewey Dove and Debbie Thomas**

VCM REV 14

25 JAN 2001