

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 1469/1481 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: **Douglas Electrical**

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.

Cure: 45min @150F air

**

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

Bar Position-CVCM Test Number	30760 (13)	30761 (14)	30762 (15)
Initial mass, holder and specimen, gm	0.272860	0.286133	0.274411
Mass of holder, gm	0.033110	0.031428	0.030721
Initial specimen mass @ 50 %RH, gm	0.239750	0.254705	0.243690
Final mass, holder & specimen, gm	0.272269	0.285438	0.273815
Total mass loss, specimen, gm	0.000591	0.000695	0.000596
Percent TML, specimen	0.25%	0.27%	0.24%
Average value TML	*****	0.25%	*****
Mass after 50 %RH re-soak, 23 C, 24hr, gm	0.272460	0.285655	0.274008
Total mass, water vapor regain, gm	0.000191	0.000217	0.000193
Percent water vapor regain	0.08%	0.09%	0.08%
Average value WVR @ 50 %RH	*****	0.08%	*****
Initial mass, collector, gm	1.254670	1.754581	1.753931
Final mass, collector, gm	1.254677	1.754585	1.753936
Collected mass – CVCM, gm	0.000007	0.000004	0.000005
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 **4/15/08**

Test completed: **4/16/08**

Period **24** Hrs.

Pressure **1.4X10⁻⁵ Torr**

Specimen Temp. **124.5** °C

Collector Temp. **24.8** °C

Analyst **Dewey Dove and Debbie Thomas**

VCM REV 14

25 JAN 2001