

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

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

Requested by: **Fred Gross**

Phone: **301 286-8349**

Date: **11/10/02**

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

Silicone Resin – clear colorless A/B 10:1 pwb, KJR 9022E

Manufacturer of Material (Name, City and State Address): **Shin-Etsu Chemical, Co, Ltd, Tokyo, Japan**

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

J. O. Number/Project Name: **GLAST**

Request Infra-Red Spectra?

YES

NO

Originator Source/Code (other than Code 541): **Nick Vermani, Swales**

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

GSFC did the 24 hours at 175 C

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.

Cured 12 hours @ RT plus 2 hours @120C plus 24 hours @ 175C

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

Bar Position-CVCM Test Number	28213 (22)	28214 (23)	28215 (24)
Initial mass, holder and specimen, gm	0.240259	0.245915	0.273086
Mass of holder, gm	0.034883	0.035721	0.036890
Initial specimen mass @ 50%RH, gm	0.205376	0.210194	0.236196
Final mass, holder & specimen, gm	0.240115	0.245753	0.272928
Total mass loss, specimen, gm	0.000144	0.000162	0.000158
Percent TML, specimen	0.07%	0.08%	0.07%
Average value TML	*****	0.07%	*****
Mass after 50%RH re-soak, 23 C, 24hr, gm	0.240120	0.245764	0.272931
Total mass, water vapor regain, gm	0.000005	0.000011	0.000003
Percent water vapor regain	0.00%	0.01%	0.00%
Average value WVR @ 50%RH	*****	0.00%	*****
Initial mass, collector, gm	1.787085	1.819828	1.896804
Final mass, collector, gm	1.787108	1.819864	1.896843
Collected mass – CVCM, gm	0.000023	0.000036	0.000039
Percent CVCM	0.01%	0.02%	0.02%
Average Value CVCM	*****	0.01%	*****

Remarks: CVCM (unweighable) on separator plate to _____ mm diameter.

CVCM appearance as follows: _____ is not detectable on collector plates.

- thin; heavy; **gray** color; transparent; _____ colored liquid;
 opaque; matte; interference fringes; foggy; distorts eye reflection; smooth; smoky; splotty; partially opaque;
 clear liquid; liquid runs in excess; Deposit covers **15** % of collector disc.

Specimen appearance after test:

No Visible Change

Test started **11/26/02**

Test completed: **11/27/02**

Period **24** Hrs.

Pressure **2.1X10⁻⁵** Pascal

Specimen Temp. **125.0** °C

Collector Temp. **24.4** °C

Analyst **Dewey Dove & Debbie Thomas**

VCM REV 14

25 JAN 2001