## MICRO VCM TEST REQUEST AND DATA SHEET PER ASTM E-595-07

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

Requested by: Ian R Mayoh	Phone: <b>00447766164454</b>	ian.Mayoh@v	entec-europe.com	Date: 15/08/2013		
Material Identification (produc VT-901, Tg250 (PI GPY)	t name, number, description Polyimide PCB Laminate	, classification, e	tc.):			
Manufacturer of Material (Nan District, Suzhou, P.R.C. 215		Ventec Electro	nics (Suzhou) Co., I	Ltd. 168 Xiangya	ng Rd., New	
Material application (general uprinted Circuit Boards	usage, i.e. adhesive, coating	, potting, etc.): B	ase material for ma	nufacture of hig	h reliability	
J. O. Number/Project Name:		Request I	nfra-Red Spectra?	□YES □NO	)	
Originator Source/Code (othe	r than Code 541):	·	,	_ <del>_</del>		
Indicate processing required by performed.  None	oy GSFC Materials personne	el. Include the re	cipe, cure(s), and spe	ecial instructions t	o be	
If material is to be tested in the recipe, cure(s), post cure(s), rather is newly manufacted and meets the requirements facility, per the above address been no further processing.  ***********************************	nomenclature of components ured polyimide resin based s of IPC4101C slash sheets ess. Post manufacture, the	s, etc. I pcb laminate, f s /40 /41 /42. The e copper claddir	ully cured during th material was fully i	ne manufacturing manufactured in off otherwise the	process our Suzhou	
Bar Position-CVCM Test Number	3400	09 (22)	34010 (23)	3401	1 (24)	
Initial mass, holder and specimen	- CIPO	41386	0.331028		8550	
Mass of holder, gm	- 0.5-	35211	0.036166		3921	
Initial specimen mass @ 50 %RI	l am	06175	0.294862		4629	
Final mass, holder & specimen, g	0.50	39500	0.329221			
Total mass loss, specimen, gm	0.5				6861 4680	
Percent TML, specimen		01886	0.001807		1689	
Average value TML		62%	0.61% <b>0.61%</b>		0.62%	
Mass after 50 %RH re-soak, 23	C 24hr am				0.307638	
Total mass, water vapor regain, g	- 0.0-	40475	0.330031			
Percent water vapor regain	0.00	00975	0.000810		0777	
Average value WVR @ 50 %RH		32%	0.27%	_	0.28%	
Initial mass, collector, gm			0.29%			
		32003	1.815231		1823	
Final mass, collector, gm	1.78	32027	1.815240		1850	
Collected mass – CVCM, gm	0.00	00024	0.000009	0.00	0027	
Percent CVCM		01%	0.00%	0.0	)1%	
Average Value CVCM	*****	*****	0.01%	*****	*****	
opaque; matte; interfere		color	ed liquid;	_		
Test started <b>9/17/13</b>	Test completed: 9/18/13	ı	Period <b>24</b> Hrs. F	Pressure <b>3.9X10<sup>-7</sup></b>	orr	
Specimen Temp. 124.8 °C	Collector Temp. <b>24.6</b> °C		vey Dove & Debbie			
opcomien remp. ILTIO	Conecioi remp. ZT.U	Analyst DEV	TO DOTE & DENNIE	<del></del>		