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## **UL APPROVED – FLAME RETARDENT THERMALLY CONDUCTIVE COMPOUNDS**

These **UL Approved thermally conductive** Compounds are pourable, room temperature cure, epoxy resin systems. They are ideally suited for meter mix dispensing and designed for medium voltage devices such as transformers, electronic modules, and coil. They can also be used for many other general purposes of potting and encapsulating applications.

**UL File No: E198161 under “Plastic – Components” for 94VO Flame Retardant**

PRODUCT		EC-1006M-4	SC-550LV
		EPOXY	SILICONE
Mix ratio by weight (PART-A/PART-B)		100/12	100/100
Mix ratio by Volume (PART-A/PART-B)		-	100/100
Mixed Viscosity @ 25°C	cps	3000-5000	800-1000
Pot life @ 25°C (100 grams)	hours	2	>24
Recommended Cure		24-48 hrs @ 25°C	1 hr @ 100°C
Alternate Cure		1-2 hrs @ 100°C	½ hr @ 125°C
TYPICAL CURED PROPERTIES			
Color		Black	Gray
Specific Gravity		1.6	1.4
Hardness	Shore	A-85	A-30
Thermal Conductivity	W/m°K	0.7	0.5
Water Absorption (weight gain) (24 hrs. immersion @ 25°C)	%	0.12	<0.1
Linear Shrinkage	in/in	0.0031	0.001
Tensile Strength	psi	2700	>250
Elongation @ Break	%	-	>200
Glass Transition Temperature	°C	28	45
UL Flame Retardancy Test		Pass - 94 VO @ 3mm thickness	Pass - 94 VO @ 3mm thickness
Dielectric Constant	@ 1 kHz	4.8	2.9
Dissipation Factor	@ 1 kHz	0.14	0.02
Volume Resistivity	Ohm-cm	1x10 <sup>14</sup>	2x10 <sup>16</sup>

**DISCLAIMER:** All data given here is offered as a guide to the use of these materials and not as a guarantee of their performance. The user should evaluate their suitability for own purposes. Properties are typical and should not be used in preparing specifications. Statements are not to be construed as recommendations to infringe any patent.