



**50-2369 FR
FLAME RETARDANT
THERMALLY CONDUCTIVE POLYURETHANE
UL 94 V-O LISTED**

DESCRIPTION:

The 50-2369FR Potting and Encapsulating Compound has been formulated to meet the stringent non-burning requirements of UL94 V-O. 50-2369 FR Urethane is listed with Underwriter's Laboratory for passing UL94 V-O. This system offers excellent heat transfer, low exotherm, and excellent electrical properties.

This system is a good choice for potting applications containing surface mount components or any application requiring low stress, thermal conductivity and flame retardancy. 50-2369 FR is suitable for outdoor use.

FEATURES:

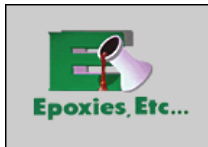
- * Low viscosity
- * Excellent electrical insulation
- * Low shrinkage
- * Thermally conductive
- * Low stress on sensitive components
- * Excellent water resistance
- * Thermal shock resistance
- * Flame retardant (UL 94 V-O Listed)

TYPICAL SPECIFICATIONS:

Standard Color	Black
Viscosity, CPS	
Part A Polyol	15,000
Part B Isocyanate	150
Specific Gravity, 25°C	
Part A Polyol	1.57
Part B Isocyanate	1.21
Hardness, Shore D	75
Tensile strength, Psi	3,500
Elongation, %	20
Thermal Shock, -65°C to + 130°C	Passes
Linear shrinkage, %	0.2
Linear Thermal Expansion, in/in/°C	16.2 x 10 ⁻⁵
Thermal conductivity, BTU/hr/ft ² /°F/in	8

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Epoxy, Urethane & Silicone Formulations

TYPICAL SPECIFICATIONS (continued)

Water Absorption, %	
24 hours immersion	0.074
7 days immersion	0.18
Fungus Resistant	Non – Nutrient
Dielectric constant, 100 HZ	4.3
Dielectric Strength, Volts/mil	540
Volume Resistivity, ohm-cm	2.1×10^{14}
Surface Resistivity, ohms	6.0×10^{17}
Operating temperature range, °C	-65 to + 135°C

INSTRUCTIONS FOR USE:

- 1) Agitate Part A thoroughly to re-disperse fillers. Some settling during transit or storage is common.
- 2) By weight mix 100 parts 50-2369 FR Part A to 20 parts Part B. By volume 100 Parts A to 26 Parts B. Avoid using paper cups & wooden stirrers. Use glass or metal containers and stirrers.
- 3) Pour and cure according to one of the following schedules:
 - A. 25°C 24 hours
 - B. 60°C 2 hours
 - C. 100°C 20-30 minutes

STORAGE & HANDLING:

50-2369 FR should be stored at 65 – 85°F in original tightly sealed containers. If containers are opened and the contents partially used, the material left in the container should be blanketed with dry nitrogen before sealing. Expected shelf life is 12 months in original unopened containers.

50-2369 FR does not contain TDI or MOCA. It also has a low vapor pressure which greatly reduces the vapor hazard and toxicity associated with other commercially available urethanes.

Please read MSDS before using this or any other chemical.

IMPORTANT:

The information in this brochure is based on data obtained by our own research and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. This information is furnished upon the condition that the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose.

06/08

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