

## FRE8480

### LV Epoxy Casting Compound

#### DESCRIPTION:

**FRE8480** is a room temperature cure epoxy potting and encapsulation compound formulated with a low exotherm, low viscosity and moderate gel and cure schedules. The Shore A hardness of **FRE8480** lends its use to include prototype mold making, potting and encapsulation for shock sensitive components, PC board protection and moisture proofing electronic assemblies. **FRE8480** was formulated as a flame retardant system to pass **UL 94V-0**. Customer must determine suitability of product before using.

Data contained herein are believed to be reliable. Fit-for-use testing should be conducted by each user.

#### TYPICAL PROPERTIES

	<u>TEST METHOD</u>	<u>VALUE</u>
Gel Time [200 Gram Mass at 75 ° F] (minutes):		100
Working Time at 200g (hours):		1.5
Mix Ratio:		
By Volume:		100:100
By Weight:		100:94
Part A:		
Viscosity (cps):	ASTM D2393	7000
Color:		Black
Specific Gravity (g/cc):	ASTM D1475	1.50
Part B:		
Viscosity (cps):	ASTM D2393	4500
Color:		Amber
Specific Gravity (g/cc):	ASTM D1475	1.42
Mixed:		
Color:		Black
Hardness (Shore A):		80
Specific Gravity (g/cc):	ASTM D1475	1.46
Service Temperature Range (°F):		-60 to 250
Cured:		
Thermal Conductivity (W/mK):		0.81
Coefficient of Thermal Expansion (ppm/°C):		130
Electrical:		
Dielectric Constant (25°C, 100 Hz):	ASTM D150	3.5
Dielectric Strength (1/8 inch, V/mil):	ASTM D149	432
Volume Resistivity (Ωcm):		1.84 x 10 <sup>11</sup>

\*Mixed viscosity measured immediately after mixing, final mixed viscosity (~5000 cps) recovers over time.



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## **APPLICATION PROCEDURES**

Gravity pour or vacuum potted.

If unit is preheated allow unit to cool below 65°C before dispensing potting material.

## **PRECAUTIONS**

For industrial use only. Keep away from children.

Refer to the Material Safety Data Sheets (MSDS forms) pertaining to this product before using.

Avoid contact with skin or eyes. In the event of an eye splash or contact, immediately flush with cold water for 15 minutes and contact a physician. If skin contact occurs, wash with mild soap and water. The wearing of safety glasses with side shields and impervious gloves is recommended.

## **RESIN AND HARDENER WARNING STATEMENT**

May cause allergic skin reaction. Avoid all contact with skin, eyes, and clothing. Wash thoroughly after handling.

To the best of our knowledge, the information contained herein is accurate. However, STAR TECHNOLOGY, Inc., does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. The information contained herein is considered typical properties and is not intended to be used as specifications for our products. This information is offered solely to assist purchaser in selecting the appropriate products for purchaser's own testing. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein and in the material safety data sheet, we cannot guarantee that these are the only hazards that exist. Repeated and prolonged exposure to epoxy resins can cause sensitization or other allergic responses.