

50-3152 FR FLAME RETARDANT THERMALLY CONDUCTIVE UL 94 V-0 LISTED

DESCRIPTION:

50-3152 FR Potting and Encapsulating Compound has been formulated to meet the stringent nonburning requirements of UL 94 V-0. 50-3152FR Epoxy is listed with Underwriter's Laboratories for passing UL 94 V-0. It also has a Comparative Tracking Index (CTI) of >600 Volts (PLC 0).

50-3152 FR is a two component epoxy potting and encapsulating system. This semi-rigid epoxy has excellent shock and vibration resistance along with good thermal conductivity.

50-3152 FR is designed for ease of use. It has a convenient 1:1 mix ratio and is low in viscosity.

• Simple to use in production

FEATURES:

BENEFITS:

- Protects electronics by quickly transferring heat
- Thermally conductiveEasy 1:1 ratio
- Shock and vibration resistant
- Will not damage electronic components

TYPICAL SPECIFICATIONS:

Viscosity @ 25°C cps Resin Hardener Mixed	20,000 64,000 31,000
Color Resin	Black
Hardener	Beige
Mixed	Black
Specific Gravity, 25°C	
Resin	1.55
Hardener	1.49
Pot Life, 100 grams, 25°C, minutes	100
Hardness, Shore D	
@ 25°C	80
@ 65°C	50
Lap Shear Strength, psi (Al to Al)	2,500
Dielectric Constant, 25°C, 100 Hz	5.0
Dielectric Strength, V/mil	400

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TYPICAL SPECIFICATIONS (continued):

Volume Resistivity, ohm-cm, 25 °C Thermal Conductivity, W/m- °K Operating Temperature, °C Compressive Strength, psi Comparative Tracking Index (CTI), Volts 7.6 x 10¹³ 1.01 -40 to +135 7,500 600

INSTRUCTIONS FOR USE:

- 1) The 50-3152 FR Epoxy and 50-3152 hardener contain fillers. Both components should be mixed well prior to use to ensure fillers are uniformly dispersed.
- 2) Mix equal parts resin to hardener by weight.
- 3) To ensure void free castings material can be vacuum degassed.
- 4) Pour and cure according to one of the following cure schedules:

25°C	24-48 Hours
65°C	2-3 Hours
100°C	30 Minutes

IMPORTANT:

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