

UNFILLED LOW DUROMETER CLEAR URETHANE ELASTOMER 20-2356 Shore A - 45

DESCRIPTION:

This two component urethane is a low durometer (45 Shore A), potting, casting, and encapsulating compound. It is an unfilled material engineered to provide excellent hydrolytic stability and low moisture permeability. It has outstanding thermal cycling properties, a low glass transition temperature and low embedment stress to sensitive electronic components.

This unique urethane formulation maintains its integrity over a wide operating temperature range, -40°C to 125°C. The low glass transition temperature of -72°C makes this urethane ideal for low temperature potting applications.

This is a faster curing version of the 20-2350.

FEATURES

- Maintains flexibility at low temperatures
- Excellent electrical insulation
- Low stress on sensitive components
- Unaffected by moisture at high temperatures

- Thermal cycling stability
- Chemical resistance
- Hydrolytic stability
- No shrinkage

TYPICAL SPECIFICATIONS:

Standard color(Available Clear)	Black
Specific gravity @ 25°C Resin	.90
Specific gravity @ 25°C Catalyst	1.2
Mix Ratio, by weight (A:B)	100:10
Mix Ratio, by volume (A:B)	100:7.5
Hardness, Shore A	45
Viscosity, Resin	4,500
Catalyst	20
Mixed viscosity, 25°C, cps	1,600
Coefficient of thermal expansion, per °C	2.28 x 10 ⁻⁴
Tensile strength, psi	150
Elongation, %	50
Glass transition temperature, °C	-72
Pot life, 100 gram mass, 25°C	15 minutes
Dielectric constant, 25°C, 1Khz	4.5
Surface resistivity, 25°C, ohm	1x10 ¹⁶
Volume resistivity, ohm-cm	6x10 ¹⁶
Operating temperature range, °C	-40 to 125



INSTRUCTIONS FOR USE:

- 1. By weight, thoroughly mix according to mix ratio provided in above specifications. Two components should be carefully weighed in metal, plastic, or glass containers. Avoid using paper cups and wooden stirrers.
- 2. Mixed material can be degassed at 1 to 5 mm Hg to ensure bubble free castings. Containers should be large enough to allow frothing.
- 3. Cure according to one of the following cure schedules:

25°C 6 – 8 Hours 45°C 1.5 Hour 65°C 1 Hour 85°C 15 Minutes

STORAGE & HANDLING & SAFETY:

Store both components at 75-85°F in original containers. If the containers are opened and the contents partially used, the material left in the container should be blanketed with dry nitrogen before sealing. Carefully read Safety Data Sheet (SDS) before using.

IMPORTANT:

EPOXIES, ETC. MAKES NO EXPRESS OR IMPLIED WARRANTIES OR MERCHANTABILITY, FITNESS OR OTHERWISE WITH RESPECT TO ITS PRODUCTS. The information in this brochure is based on data obtained by our own research and is considered reliable. 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. The properties given are typical values and are not intended for use in preparing specifications. 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.

10/13