

20-2350 UNFILLED LOW DUROMETER CLEAR URETHANE ELASTOMER

DESCRIPTION:

20-2350 is a two-component urethane with low durometer (35 Shore A), and is great for potting, casting, and encapsulating. 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.

The 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.

20-2350 is part of the 20-2310 series of unfilled low durometer clear urethane elastomers.

FEATURES

- Maintains flexibility at low temperatures
- Thermal cycling stability
- Excellent electrical insulation
- Chemical resistance
- Low stress on sensitive components
- Hydrolytic stability
- Unaffected by moisture at high temperatures
- No shrinkage

TYPICAL SPECIFICATIONS:

Viscosity, 25°C, cps Mixed	1,600
Mix Ratio, (A:B)	.,
By Weight	100:10
By Volume	100:7.5
Color (Available Clear)	Black
Hardness, Shore A	35
Operating temperature range, °C	-40 to 125
Glass transition temperature, °C	-72
Pot life, 100 grams, 25°C	1 hour
Specific gravity, 25°C	
Resin	0.90
Catalyst	1.2
Coefficient of Thermal Expansion, per °C	2.28x10 ⁻⁴
Tensile strength, PSI	150
Elongation, %	50

epoxies.com

21 Starline Way Cranston, RI 02921 USA t 401.946.5564 f 401.946.5526



Dielectric constant, 25°C, 1kHz	4.5
Surface resistivity, 25°C, ohm	1x10 ¹⁶
Volume resistivity, ohm-cm	6x10 ¹⁶

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:

a)	25°C	24 Hours
b)	45°C	2.5 Hours
c)	65°C	1.5 Hours
d)	85°C	40 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.

Please read the Safety Data Sheet before using this or any other chemical.

AVAILABILITY:

20-2350 is available in quart, gallon, and 5-gallon containers.

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.

06/2025

21 Starline Way Cranston, RI 02921 USA t 401.946.5564 f 401.946.5526

epoxies.com



epoxies.com

21 Starline Way Cranston, RI 02921 USA t 401.946.5564 f 401.946.5526