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TECHNICAL BULLETIN

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	2.28×10^{-4}
Tensile strength, PSI	150
Elongation, %	50

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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:

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