



# UNFILLED LOW DUROMETER CLEAR URETHANE ELASTOMERS

20-2310 20-2350 20-2360 STOMERS Shore A 30 Shore A 35 Shore A 90

## **DESCRIPTION:**

This two component urethane series are low durometer (30-90 Shore A), potting, casting, and encapsulating compounds. They are unfilled materials engineered to provide excellent hydrolytic stability and low moisture permeability. They have outstanding thermal cycling properties, low glass transition temperatures and low embedment stress to sensitive electronic components.

These unique urethane formulations maintain their integrity over a wide operating temperature range, -40°C to 125°C. The low glass transition temperature of -72°C makes these urethanes ideal for low temperature potting applications.

## **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:**

Standard color (Available Clear) Specific gravity @ 25°C Resin Specific gravity @ 25°C Catalyst Mix Ratio, by weight (A:B) Mix Ratio, by volume (A:B) Hardness, Shore A Mixed viscosity, 25°C, cps Coefficient of thermal expansion, per °C Tensile strength, PSI Elongation, % Glass transition temperature, °C Pot life, 100 gram mass, 25°C	20-2310 Black .91 1.2 100:10 100:7.5 30 3,000 2.28x10 <sup>-4</sup> 110 60 -72 1.5 hours	20-2350 Black .90 1.2 100:10 100:7.5 35 1,600 2.28x10 <sup>-4</sup> 150 50 -72 1 hour	20-2360 Black .90 1.2 100:40 100:31 90 1,600 2.28x10 <sup>-4</sup> 400 40 -72 40 minutes
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### **INSTRUCTIONS FOR USE:**

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.

Mixed material can be degassed at 1 to 5 mm Hg to ensure bubble free castings. Containers should be large enough to allow frothing.

Cure according to one of the following cure schedules:

25°C	24 Hours
45°C	2.5 Hours
65°C	1.5 Hours

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. Carefully read Safety Data Sheet (SDS) before using.

#### **IMPORTANT:**

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