

UNFILLED FAST CURING URETHANE 20-2354R (Formerly Lab# 102203A)

DESCRIPTION:

20-2354 R is a two component, low durometer, potting, casting, and encapsulating compound. This unfilled system provides excellent hydrolytic stability and low moisture permeability. It has outstanding thermal cycling properties, low glass transition temperatures and low embedment stress on sensitive electronic components.

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

20-2354R should be used with 20-2350C Isocyanate.

FEATURES

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

TYPICAL SPECIFICATIONS:

Standard color	Clear
Specific gravity @ 25°C	.90
Mix Ratio, by weight (20-2354R:20-2350C)	100:10
Hardness, Shore A	50
Mixed viscosity, 25°C, cps	1,600
Coefficient of thermal expansion, per °C	2.28 x 10 ⁻⁴
Tensile strength, PSI	150
Elongation, °10	50
Glass transition temperature, °C	-72
Pot life, 100 gram mass, 25°C	2 Hours
Dielectric constant, 25°C, 1khz	4.5
Surface resistivity, 25°C, ohm	1x1016
Volume resistivity, ohm-cm	6x1016
Operating temperature range, °C	-40 to 125



INSTRUCTIONS FOR USE:

- 1. By weight, thoroughly mix 10 parts 20-2350C Isocyanate to 100 parts 20-2354R. 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 29 in 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 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 Sheets (SDS) before using.

IMPORTANT:

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