

# 20-2140

## POLYURETHANE POTTING & ENCAPSULATING RESIN

### DESCRIPTION:

20-2140 is a 2-component polyurethane engineered for electronic potting, encapsulating, and casting applications. This low viscosity, low toxicity, and soft polyurethane is suitable for a variety of electronic insulating applications.

RELATED PRODUCTS: 20-2101 (enterable gel), 20-2160 (60 Shore A), 20-2180 (80 Shore A), 20-2183 (80 Shore A and quick gel time).

### GREEN:

The base Natural Oil Polyol (NOP) used in these systems is obtained directly from a plant source without chemical modifications. Renewable resources, like NOP's, reduce the demand on non-renewable fossil fuels and the overall production of carbon dioxide.

### FEATURES:

- Green
- Low Viscosity
- Low Durometer
- Moisture Resistant
- Convenient Mix Ratios
- Low Shrinkage & Exotherm

### BENEFITS:

- Reduce demand on non-renewable fossil fuels
- Quick self leveling around components
- Low stress on components & vibration resistant
- Can be used in wet environments
- Easy to process by hand or with meter mix
- Less stress to components during cure

### TYPICAL PROPERTIES:

Viscosity, cps, 25°C	
20-2140PBK Polyol Resin	1,500
20-2140ITY Isocyanate	3,000
20-2140 Mixed	1,600
Color	Clear
Hardness, Shore A	40
Mix Ratio (Polyol:Iso), by Weight	100:46
Operating Temp. Range, °C	-55 to +125
Pot Life, 25°C, Minutes	20
Specific Gravity, 25° C	
20-2140PBK Polyol Resin	0.97
20-2140ITY Isocyanate	1.15

Note: When cured at room temperature final properties are achieved in 7-10 days.

**INSTRUCTIONS FOR USE:**

1. By weight, thoroughly mix according to mix ratio provided in the above table. 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 for 24 Hours
  - b) 45°C for 2.5 Hours
  - c) 65°C for 1.5 Hours
  - d) 85°C for 40 Minutes

**STORAGE, HANDLING, & SAFETY:**

Store both components at 25 °C. If the containers are opened and the contents partially used, the material left in the container should be blanketed with dry nitrogen before sealing.

The expected shelf life is 12 months in original unopened containers.

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

**AVAILABILITY:**

This product is available in quarts, gallons, and five-gallon pails.

**IMPORTANT:**

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