

20-2184

POLYURETHANE POTTING & ENCAPSULATING RESIN

DESCRIPTION:

This polyurethane is engineered for electronic potting, encapsulating, and casting applications. It is low in viscosity, low in toxicity and available in the popular TriggerBond® dual barrel cartridge dispensing system. A key feature of this product is the quick demolding time of 1 Hour for encapsulating or casting. 20-2184 is a faster gelling version of 20-2183.

GREEN:

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

FEATURES:

- Green
- Low Viscosity
- Available in TriggerBond®
- Low Durometer
- Moisture Resistant
- Low Shrinkage & Exotherm

BENEFITS:

- Reduce demand on non-renewable fossil fuels
- Quick self leveling around components
- Easy to use packaging
- Low stress on components & vibration resistant
- Can be used in wet environments
- Less stress to components during cure

TYPICAL PROPERTIES:

Viscosity, 25°C, cps	
20-2184PBK Polyol Resin	2,200
20-2184ITY Isocyanate	1,500
20-2184 Mixed	1,700
Color	Black
Gel Time, 25°C, Minutes	10
Hardness, Shore A	80
Mix Ratio (Iso:Polyol)	
By Volume	1:2
By Weight	60:100
Operating Temperature Range, °C	-55 to +125
Specific Gravity, 25 °C	
20-2184PBK Polyol Resin	0.97
20-2184ITY Isocyanate	1.15
Elongation	220
Tear Strength, pli	80
Tensile Strength, psi	1700



Dielectric Strength, V/mil	650
Dielectric Constant, 1 KHz	3.4
Dissipation Factor, 1 KHz	0.017
Volume Resistivity, ohm-cm	7.2×10^{14}
Surface Resistivity, 25°C, ohm	$>1.0 \times 10^{15}$
Coefficient of Thermal Expansion, ppm/°C	200
Thermal Conductivity, W/m·°K	0.3

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

INSTRUCTIONS FOR USE:

1. By weight, thoroughly mix according to mix ratio provided above. Weigh carefully 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 at 25°C for 20 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 gallon cans.

IMPORTANT:

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