

20-2100 POLYURETHANE POTTING & ENCAPSULATING COMPOUND

DESCRIPTION:

20-2100 is a high performance two component flexible urethane system. This easy-to-use polyurethane is very low in viscosity and ideal for potting or encapsulating delicate electronic components. 20-2100 exhibits very low shrinkage, stress, and exotherm throughout the cure cycle. This system is also well known for its outstanding thermal shock and excellent dielectric properties.

FEATURES:

- Does not contain MOCA or TDI
- Excellent dielectric properties
- Low viscosity
- Very good thermal shock and vibration resistance
- Low shrinkage

- Low stress on components
- Fungus resistant
- Easy to handle
- Hydrolytic stability
- Low durometer

TYPICAL SPECIFICATIONS:

Viscosity, cps, 25°C Mixed	1,600
Mix Ratio, (Resin:Catalyst)	
By Weight	100:20
Standard Color	Black
Hardness, Shore D	45
Operating Temperature, °C	-55 to +130
Pot Life, 1lb, 25°C	40 minutes
Specific Gravity, 25°C	1.4
Tensile Strength, psi	1,600
% Elongation	50
Linear shrinkage, %	0.59
Water absorption, %	
24 hrs.	0.14
7 days	0.45
Coefficient of Thermal Expansion, in/in 1°C	15 x 10⁻⁵
Thermal Shock 10 cycles	
⁻65°C to ⁺130°C	Pass

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Dielectric Strength, V/mil	630
Dielectric Constant, 100 Hz	4.1
Dissipation Factor, 60 Hz	0.49
Volume Resistivity, ohm-cm	3.4 x 10 ¹⁰

INSTRUCTIONS FOR USE:

- 1. By weight, thoroughly mix 20 parts Catalyst #10 to 100 parts 20-2100 Polyurethane. 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 for frothing during degassing.
- 3. Cure for 24 hours at room temperature or accelerate with heat.

a) 60 °Cb) 100 °C6 Hours4 Hours

STORAGE, HANDLING & SAFETY:

20-2100 should be stored at 65- 85°F in original tightly sealed containers. If containers are opened and the contents partially used, the material left in the container should be blanketed with dry nitrogen before sealing. Expected shelf life is 12 months in original unopened containers.

AVAILABILITY:

This product is available in quarts, 1 gallon, 5-gallon pails, and 55-gallon drum containers.

IMPORTANT:

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