

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

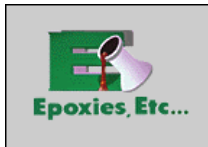
Low stress on components
Fungus resistant
Easy to handle
Hydrolytic stability
Low durometer

TYPICAL SPECIFICATIONS:

Catalyst	Cat. #10
Mix ratio, by weight	100:20
Mixed viscosity, @ 25 °C, cps	1,600
Standard color	Black
Pot life, @ 25 °C 1 lb. mass	40 Minutes
Specific gravity, @ 25 °C	1.50
Hardness, shore A	45
Tensile strength, psi	1,600
% Elongation	50
Linear shrinkage, %	0.59
Thermal shock 10 cycles -65 °C to +130 °C	Pass
Thermal expansion coefficient in/in 1 °C	15 x 10 ⁻⁵
Water absorption, % 24 hrs.	0.14
7 days	0.45

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Epoxy, Urethane & Silicone Formulations

Operating temperature range, °C	-55 to +130
Dielectric strength, volts/mil	630
Dielectric constant, 100 Hz	4.1
Dissipation factor, 60 Hz	0.49
Volume resistivity, ohm-cm	3.4×10^{13}

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.

60 °C	6 Hours
100 °C	4 Hours

STORAGE AND HANDLING:

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.

IMPORTANT:

The information in this brochure is based on data obtained by our own research and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. This information is furnished upon the condition that the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose.

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