

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:

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| 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 | 1.4 |
| Hardness, Shore D | 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 |
| Operating temperature range, °C | -55 to +130 |
| 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 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.

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| 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:

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