

20-2353

FLEXIBLE POLYURETHANE POTTING & ENCAPSULATING COMPOUND

DESCRIPTION:

20-2353 is a low durometer (Shore A 50) potting, casting, and encapsulating compound. This two-part system is engineered to provide low stress on electronic components and to resist moisture. 20-2353 provides excellent hydrolytic stability, low moisture permeability, a low glass transition temperature, and low stress on sensitive components.

20-2353 maintains its integrity over a wide operating temperature range, -40°C to $+125^{\circ}\text{C}$. It's low glass transition temperature, -72°C , makes this system ideal for low temperature potting applications.

BENEFITS

- Will not stress sensitive components
- Excellent electrical insulation
- Maintains flexibility at low temperatures
- No shrinkage
- Hydrolytic stability
- Low viscosity allows quick self leveling

TYPICAL SPECIFICATIONS:

Color	Black
Specific gravity, @ 25°C	
Resin	.9
Catalyst	1.2
Mix ratio, by weight (R:C)	100:12
Mix ratio, by volume (R:C)	100:9
Hardness, Shore A	50
Pot life, 100 gram mass, 25°C	2 hours
Viscosity, 25°C , CPS	
Resin	4,000
Catalyst	175
Mixed	3,500



Epoxy, Urethane & Silicone Formulations

Coefficient of thermal expansion, per °C	2.28×10^{-4}
Tensile strength, psi	150
Elongation, %	60
Glass transition temperature	-72
Dielectric constant, 25°C, 1 KHz	4.5
Surface resistivity, 25°C, ohm	1×10^{16}
Volume resistivity, ohm-cm	6×10^{16}
Operating temperature range, °C	-40 to +125

INSTRUCTIONS FOR USE:

- 1) By weight, thoroughly mix 12 parts 20-2353C Catalyst to 100 parts 20-2353R Resin. By volume, mix 9 parts 20-2353C Catalyst to 100 parts 20-2353R Resin. 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:

25°C	24 Hours
65°C	2 Hours
80°C	60 Minutes

STORAGE & HANDLING & SAFETY:

Store both components at 75-85F in original containers. If the containers are opened and the contents partially used, the material left in the container should be blanketed with dry nitrogen before sealing. Carefully read Material Safety Data Sheets before using.

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.