

20-2355

POLYURETHANE POTTING & ENCAPSULATING SYSTEM

DESCRIPTION:

20-2355 is an elastomeric polyurethane potting and encapsulating system. This unique formulation is unfilled and repairable. Its low viscosity, low durometer, and room temperature cure make it an ideal candidate for the potting of sensitive and delicate electronic components. 20-2355 has a convenient mix ratio and excellent dielectric properties.

FEATURES

- Low shrinkage
- Room or elevated cure
- Repairable
- Flexible
- Excellent electrical insulation
- Low stress buildup

TYPICAL SPECIFICATIONS:

Viscosity, 25°C, cps	
Resin	2,600
Curing agent	600
Mix Ratio, (Resin:Catalyst)	
By Weight	100:30
By Volume	100:25
Color	Black
Hardness, Shore A	25
Operating temperature Range, °C	-40 to +130
Gel Time, 100 grams, 25°C, minutes	9
Specific gravity, 25°C	
Resin	0.91
Curing agent	1.08
Coefficient of thermal expansion, 1/°C	2.28x10 ⁻⁴
Tensile strength, psi	150
Elongation, %	75
Dielectric constant, 25°C, 1kHz	4.5
Surface resistivity, 25°C, ohm	1x10 ¹⁶
Volume resistivity, ohm-cm	6x10 ¹⁶

**INSTRUCTIONS FOR USE:**

1. By weight, thoroughly mix 30 parts 20-2355C to 100 parts 20-2355R. By volume, mix 25 parts 20-2355C to 100 parts 20-2355R. 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:

a) 25°C	24 Hours
b) 45°C	2.5 Hours
c) 65°C	1.5 Hours
d) 85°C	40 Minutes

The 20-2355R/C system is also available in the convenient TriggerBond® dual barrel cartridge system. It may be ordered in the 50 ml or 200 ml 4:1 cartridges.

STORAGE & HANDLING & SAFETY:

Store both components at 75-85°F 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.

AVAILABILITY:

This product is available in quarts and gallon containers.

IMPORTANT:

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