



20-2135 FLEXIBLE POLYURETHANE POTTING & ENCAPSULATING COMPOUND

DESCRIPTION:

The 20-2135 is a two component, low durometer, potting, casting and encapsulating compound. This system is unfilled and low in viscosity allowing for fast self-leveling. The 20-2135 will quickly encapsulate components and electronic devices.

The 20-2135 has outstanding thermal cycling properties, a low glass transition temperature and low embedment stress to sensitive electronic components. This system will maintain its integrity over a wide operating temperature range, -50°C to 120°C. Its low glass transition temperature of -55°C makes it an ideal choice for low temperature potting applications.

FEATURES

- Maintains flexibility at low temperatures
- Thermal cycling stability
- Excellent electrical insulation
- Chemical resistance
- Low stress on sensitive components
- Hydrolytic stability
- Unaffected by moisture at high temperatures
- No shrinkage

TYPICAL SPECIFICATIONS:

Standard color (Available Clear)	Black
Viscosity, 25°C, cps	
Polyol	1,200
Isocyanate	1,950
Mixed	1,900
Specific gravity, 25°C	
Polyol	.994
Isocyanate	1.13
Hardness, Shore A	35
Coefficient of thermal expansion, per °C	2.28x10 ⁻⁴
Tensile strength, PSI	150
Elongation, %	50
Glass transition temperature, °C	-50
Dielectric constant, 25°C, 1KHz	4.5
Surface resistivity, 25°C, ohm	1x10 ¹⁶
Volume resistivity, ohm-cm	6x10 ¹⁶
Operating temperature range, °C	-40 to 130

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INSTRUCTIONS FOR USE:

- 1) By weight, mix 100 Part 20-2135 P (Polyol) to 28.5 parts 20-2135 I (Isocyanate). By volume, 100 parts Polyol to 25 parts Isocyanate. Avoid using paper cups and wooden stirrers. Use glass or metal containers and stirrers.
- 2) Pour and cure according to one of the following cure schedules:

25 °C	24 Hours
45 °C	2.5 Hours
65 °C	1.5 Hours
85 °C	40 Minutes

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.

IMPORTANT:

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