EPOXIES

20-2183 POLYURETHANE POTTING & ENCAPSULATING RESIN

DESCRIPTION:

This polyurethane is engineered for electronic potting, encapsulating, and casting applications. It is low in viscosity, low in toxicity and available in the popular TriggerBond® dual barrel cartridge dispensing system. This elastomeric system is suitable for a variety of electronic insulating applications. A key feature of this product is the quick demolding time of 1 Hour for encapsulating or casting. 20-2183 is a faster gelling version of 20-2180.

GREEN:

The base Natural Oil Polyol (NOP) used in this system is obtained directly from a plant source without chemical modifications. Using renewable resources, such as NOP's, will reduce the demand on non-renewable fossil fuels and reduce the overall production of carbon dioxide.

FEATURES:

BENEFITS:

•	1 Hour Demolding	Need fewer molds for production
•	Green	Reduce demand on non-renewable fossil fuels
٠	Low Viscosity	Quick self leveling around components
٠	Available in TriggerBond®	Easy to use packaging
•	Low Durometer	Low stress on components & vibration resistant
٠	Moisture Resistant	Can be used in wet environments
٠	Low Shrinkage & Exotherm	Less stress to components during cure

TYPICAL PROPERTIES:

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500
700
97
15
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):100

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TYPICAL PROPERTIES (continued):				
	<u>20-2183</u>	<u>20-2180</u>		
Gel Time, 25°C, Minutes	15	20		
Demold Time, 25°C, Hours	1	16-24		
Elongation	220	220		
Tensile strength, psi	1700	1700		
Tear strength, pli	80	80		
Coefficient of thermal expansion,°C	2.00 x10 ⁻⁴	2.10x10 ⁻⁴		
Thermal conductivity, W/m- °K	0.3	0.3		
Operating temperature range,°C	-55 to +125	-55 to +125		
Dielectric strength, V/mil	650	650		
Volume resistivity, ohm-cm	7.2x10 ¹⁴	7.2x10 ¹⁴		
Surface resistivity, 25°C, ohm	>1.0x10 ¹⁵	>1.0x10 ¹⁵		
Dielectric constant @1 KHz	3.4	3.4		
Dissipation Factor @ 1 KHz	.017	.017		

Note: When cured at room temperature full hardness and final properties are achieved in 7-10 days.

INSTRUCTIONS FOR USE:

1. Weighing & mixing is not necessary when using TriggerBond® cartridges. Follow the instructions for dispensing with TriggerBond® cartridges.

2. Cure according to one of the following cure schedules:

<u>20-2183</u>	<u>20-2180</u>
25°C - 1 Hour	25°C - 24 Hours
65°C - 20 Minutes	65°C - 1.5 Hours

STORAGE & HANDLING & SAFETY:

Store cartridges at 75-85°F. Avoid exposure to moisture or humidity. Carefully read Safety Data Sheets before using.

AVAILABILITY:

This product is available in the convenient TriggerBond® dual barrel cartridges (50ml, 200ml & 400ml).

IMPORTANT:

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