

POLYURETHANE POTTING & ENCAPSULATING RESINS

THE GREEN SERIES 20-2101 Enterable Gel 20-2160 Shore A 60 20-2180 Shore A 80

DESCRIPTION:

This series of polyurethane systems is engineered for electronic potting, encapsulating, and casting applications. They are low in viscosity, low in toxicity and available in the popular TriggerBond® dual barrel cartridge dispensing system. These elastomeric systems are suitable for a variety of electronic insulating applications. The durometers range from an enterable gel to Shore A 80. 20-2183 is a faster gelling version of 20-2180 that can be demolded in 1 hour.

GREEN:

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

FEATURES:

- Green
- Low Viscosity
- Available in TriggerBond®
- Low Durometer
- Moisture Resistant
- Convenient Mix Ratios
- Low Shrinkage & Exotherm

BENEFITS:

Reduce demand on non-renewable fossil fuels Quick self leveling around components Easy to use packaging

Low stress on components & vibration resistant

Can be used in wet environments

Easy to process by hand or with meter mix Less stress to components during cure

TYPICAL PROPERTIES:

<u>20-2101</u>	<u>20-2160</u>	<u>20-2180</u>
1,500	1,500	2,000
3,000	13,000	2,500
1,600	2,500	1,700
Clear	Clear, Black	Clear, Black
Gel	60	80
1:4	1:2	1:2
25:100	55:100	60:100
-55 to +125	-55 to +125	-55 to +125
20	20	20
	1,500 3,000 1,600 Clear Gel 1:4 25:100 -55 to +125	1,500 1,500 3,000 13,000 1,600 2,500 Clear Clear, Black Gel 60 1:4 1:2 25:100 55:100 -55 to +125 -55 to +125



<u>20-2101</u>	<u>20-2160</u>	<u> 20-2180</u>
0.97	1.03	0.97
1.15	1.13	1.15
N/A	150	220
	40	80
N/A	375	1700
4.0	3.6	3.4
0.017	0.017	0.017
625	625	650
1.0 x 10 ¹⁵	1.0 x 10 ¹⁵	1.0 x 10 ¹⁵
7.2×10^{14}	7.2×10^{14}	7.2×10^{14}
200	200	200
0.3	0.3	0.3
	0.97 1.15 N/A N/A N/A 4.0 0.017 625 1.0 x 10 ¹⁵ 7.2 x 10 ¹⁴	0.97 1.03 1.15 1.13 N/A 150 N/A 40 N/A 375 4.0 3.6 0.017 0.017 625 625 1.0 x 10 ¹⁵ 7.2 x 10 ¹⁴ 200 200

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

INSTRUCTIONS FOR USE:

- 1. By weight, thoroughly mix according to mix ratio provided in the above table. 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 for 24 Hours
- c) 65°C for 1.5 Hours
- b) 45°C for 2.5 Hours
- d) 85°C for 40 Minutes

STORAGE & HANDLING & SAFETY:

Store both components at 25 °C. If the containers are opened and the contents partially used, the material left in the container should be blanketed with dry nitrogen before sealing. The expected shelf life is 12 months in original unopened containers.

Please read the Safety Data Sheet before using this or any other chemical.

AVAILABILITY:

These products are available in the convenient TriggerBond® dual barrel cartridges (50ml, 200ml & 400ml), quarts, gallons, five-gallon pails and 55-gallon drums.

IMPORTANT:

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