

Epoxies, Ect. 20-2101 (Enterable Gel)

Polyurethane
Epoxies, Etc.

Message:

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.

Green:
The base Natural Oil Polyol (NOP) used in these systems 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:
- 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

General Information		
Features	Electrically Insulating	
	Low Exotherm	
	Low Shrinkage	
	Low to No Water Absorption	
	Low Toxicity	
	Low Viscosity	
	Renewable Resource Content	
Uses	Electrical/Electronic Applications	
Appearance	Clear/Transparent	
Processing Method	Casting	
	Encapsulating	
	Potting	
Thermal	Nominal Value	Unit
CLTE - Flow	2.0E-4	cm/cm/°C
Thermal Conductivity	0.30	W/m/K
Electrical	Nominal Value	Unit
Surface Resistivity	> 1.0E+15	ohms

Thermoset	Nominal Value	Unit
Thermoset Mix Viscosity (25°C)	1600	cP
Additional Information	Nominal Value	Unit
Operating Temperature	-30.0 to 125	°C
Uncured Properties	Nominal Value	Unit
Color	Clear/Transparent	
Mix Ratio by Weight (PBW)		
Part A	100	
Part B	25	
Mix Ratio by Volume (PBV)		
Part A	4.0	
Part B	1.0	
Density		
25°C ¹	0.968	g/cm ³
25°C ²	1.15	g/cm ³
Viscosity		
25°C ³	1.5	Pa·s
25°C ⁴	2.0	Pa·s
Curing Time		
85°C	0.66	hr
65°C	1.5	hr
45°C	2.5	hr
25°C	24	hr
Gel Time (25°C)	20	min
Cured Properties	Nominal Value	Unit
Electric Strength	25	kV/mm
Relative Permittivity (1 kHz)	4.00	
Volume Resistivity	7.2E+14	ohms·cm
Dissipation Factor (1 kHz)	0.017	
NOTE		
1.	Part B	
2.	Part A	
3.	Part B	
4.	Part A	

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