Epoxies, Ect. 20-2160

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	Black
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)	2500	cP
Additional Information	**Nominal Value**	**Unit**
Operating Temperature	-30.0 to 125	°C
Uncured Properties	**Nominal Value**	**Unit**
Color	Black	
Mix Ratio by Weight (PBW)		
Part A	100	
Part B	55	
Mix Ratio by Volume (PBV)		
Part A	2.0	
Part B	1.0	
Density		
25°C [1]	1.03	g/cm³
25°C [2]	1.13	g/cm³
Viscosity		
25°C [3]	1.5	Pa·s
25°C [4]	5.5	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**
Shore Hardness (Shore A)	60	
Tensile Strength	2.59	MPa
Tensile Elongation at Break	150	%
Tear Strength	7.01	kN/m
Electric Strength	25	kV/mm
Relative Permittivity (1 kHz)	3.60	
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	

Recommended distributors for this material

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