Epoxies, Ect. 20-2330

Polyurethane

Epoxies, Etc.

Message:

This two component urethane series are low durometer (30-90 Shore A), potting, casting, and encapsulating compounds. They are unfilled materials engineered to provide excellent hydrolytic stability and low moisture permeability. They have outstanding thermal cycling properties, low glass transition temperatures and low embedment stress to sensitive electronic components.
These unique urethane formulations maintain their integrity over a wide operating temperature range. The low glass transition temperature of approximately -70°C makes these urethanes ideal for low temperature potting applications. These systems exhibit very little hardness increase when cooled to -72°C.
Features:
Maintains flexibility at low temperatures
Thermal cycling stability
Excellent electrical insulation
Chemical resistance
Low stress on sensitive components
Hydrolytic stability

General Information	
Features	Electrically Insulating Good Chemical Resistance Good Flexibility Hydrolytically Stable Low to No Water Absorption
Uses	Electrical/Electronic Applications
Appearance	Black
Processing Method	Casting Encapsulating Potting

Thermal	Nominal Value	Unit
Glass Transition Temperature	-70.0	°C
CLTE - Flow	2.3E-4	cm/cm/°C
Electrical	**Nominal Value**	**Unit**
Surface Resistivity	1.0E+16	ohms
Thermoset	**Nominal Value**	**Unit**
Thermoset Mix Viscosity (25°C)	3000	cP
Additional Information	**Nominal Value**	**Unit**
Operating Temperature	-40.0 to 125	°C
Uncured Properties	**Nominal Value**	**Unit**
Color	Black	
Mix Ratio by Weight (PBW)		
Part A	100	

Part B	15	
Density		
25°C [1]	0.908	g/cm³
25°C [2]	1.13	g/cm³
Curing Time		
85°C	0.66	hr
65°C	1.5	hr
45°C	2.5	hr
25°C	24 to 48	hr
Pot Life [3] (25°C)	150	min

Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	30	
Tensile Strength	0.779	MPa
Tensile Elongation at Break	110	%
Relative Permittivity (1 kHz, 25°C)	4.50	
Volume Resistivity	6.0E+16	ohms·cm

NOTE	
1.	Part A
2.	Part B
3.	100 gram mass

Recommended distributors for this material

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