Epoxies, Ect. 20-2345

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)	5000	сР				
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	0.898	g/cm³
25°C ²	1.17	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)	45	
Tensile Strength	1.04	MPa
Tensile Elongation at Break	120	%
Relative Permittivity (1 kHz, 25°C)	4.50	
Volume Resistivity	6.0E+16	ohms·cm
NOTE		
1.	Part A	
2.	Part B	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

