Epoxies, Ect. 50-3182 NC (Cat. 30)

Epoxy; Epoxide

Epoxies, Etc.

Message:

50-3182 NC is a highly filled epoxy system with excellent physical, electrical, and thermal properties. 50-3182 NC offers very high thermal conductivity, excellent electrical insulation, and low thermal expansion. This unique combination of properties makes this system ideal for applications where electrical insulation and mechanical protection must be maintained while transferring heat.

Applications:

50-3182 NC is ideal for high voltage applications such as power supplies, transformers, high voltage insulators, bushings, etc...

General Information			
Features	Electrically Insulating		
	Low Viscosity		
	Thermally Conductive		
Uses	Bushings		
	High Voltage Insulation		
Physical	Nominal Value	Unit	
Molding Shrinkage - Flow	0.10	%	
Mechanical	Nominal Value	Unit	
Flexural Strength	93.1	MPa	
Impact	Nominal Value	Unit	
Notched Izod Impact	19	J/m	
Thermal	Nominal Value	Unit	
CLTE - Flow	3.0E-5	cm/cm/°C	
Thermal Conductivity	1.7	W/m/K	
Heat Distortion	175	°C	
Operating Temperature	-55.0 to 205	°C	
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity (25°C)	45000	сР	
Uncured Properties	Nominal Value	Unit	
Mix Ratio by Weight (PBW)			
Part A	100		
Part B	6.5		
Density ¹ (25°C)	2.29	g/cm³	
Curing Time			
100°C	2.0 to 3.0	hr	
85°C	3.0 to 4.0	hr	
Cured Properties	Nominal Value	Unit	
Water Absorption ²	0.11	%	

Shore Hardness (Shore D)	95	
Tensile Modulus	10300	MPa
Tensile Strength	58.6	MPa
Compression Strength	117	MPa
Electric Strength	22	kV/mm
Relative Permittivity (60 Hz)	6.40	
Volume Resistivity	4.9E+16	ohms·cm
Dissipation Factor (60 Hz)	0.018	
NOTE		
1.	Mixed	
2.	After 7 days	

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