Epoxies, Ect. 50-3185 NC (Catalyst #190)

Epoxy; Epoxide

Epoxies, Etc.

Message:

50-3185 NC is a filled epoxy encapsulant possessing excellent physical, electrical, and thermal properties. 50-3185 NC is an excellent choice where low thermal expansion, outstanding electrical insulation and/or high thermal conductivity is required. Three catalysts are available to choose from. When cured with Catalyst 190 or Catalyst 30 this system meets NASA's outgassing requirements.

Features:

Low Thermal Expansion Excellent Electrical Insulator High Thermal Conductivity

Protects & Conceals Circuitry

Applications:

50-3185 NC is ideal for high voltage applications such as power supplies, transformers, high voltage insulators, bushings, etc...

General Information			
Features	Electrically Insulating		
	Thermally Conductive		
Uses	Bushings		
	High Voltage Insulation		
Processing Method	Encapsulating		
	Potting		
Physical	Nominal Value	Unit	
	0.40	%	
Molding Shrinkage - Flow			
Mechanical	Nominal Value	Unit	
Flexural Strength	103	MPa	
Thermal	Nominal Value	Unit	
Glass Transition Temperature	77.0	°C	
CLTE - Flow	3.0E-5	cm/cm/°C	
Thermal Conductivity	1.4	W/m/K	
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity (25°C)	16800	сР	
Additional Information	Nominal Value	Unit	
Outgassing	.75% TML		
Thermal Shock Resistance	> 10	Cycles	
Uncured Properties	Nominal Value	Unit	
Mix Ratio by Weight (PBW)			
Part A	100		
Part B	3.0 to 4.0		
Density ¹ (25°C)	2.30	g/cm³	

Viscosity ² (25°C)	48	Pa·s
Curing Time (66°C)	2.0	hr
Cured Properties	Nominal Value	Unit
Water Absorption ³	0.010	%
Shore Hardness (Shore D)	96	
Compression Strength	165	MPa
Electric Strength	15	kV/mm
Relative Permittivity (1 MHz)	5.21	
Volume Resistivity	4.9E+16	ohms·cm
Dissipation Factor (1 MHz)	0.036	
NOTE		
1.	Mixed	
2.	Part A	
3.	After 24 hours	

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