

# Epoxies, Ect. 50-3182 NC (Cat. 140)

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	
	Good Adhesion	
	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)	15000	cP
Uncured Properties	Nominal Value	Unit
Mix Ratio by Weight (PBW)		
Part A	100	
Part B	6.5 to 7.5	
Density <sup>1</sup> (25°C)	2.29	g/cm <sup>3</sup>
Curing Time (66°C)	2.0	hr
Cured Properties	Nominal Value	Unit
Water Absorption <sup>2</sup>	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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