

# Epoxies, Ect. 50-3100 (Cat. 30)

Epoxy; Epoxide

Epoxies, Etc.

## Message:

50-3100 is designed for the fastest and most continuous high heat transfer. 50-3100 measures several times faster heat dissipation than other commercially available types. The most important breakthrough is the handling of 50-3100. This system can be easily mixed and poured to form a dimensionally stable heat transfer package.

Typical applications include encapsulation of power supplies, transformers, coils, insulators, protective covering for chips, temperature probes, etc...

General Information		
Features	Good Dimensional Stability	
	Low Viscosity	
Uses	Insulation	
	Protective Coverings	
Physical	Nominal Value	Unit
Molding Shrinkage - Flow	0.30	%
Thermal	Nominal Value	Unit
CLTE - Flow	3.0E-5	cm/cm/°C
Thermal Conductivity	2.2	W/m/K
Heat Distortion	120	°C
Operating Temperature	-60.0 to 205	°C
Uncured Properties	Nominal Value	Unit
Mix Ratio by Weight (PBW)		
Part A	100	
Part B	9.0	
Density (25°C)	2.00	g/cm <sup>3</sup>
Viscosity		
25°C <sup>1</sup>	29	Pa · s
25°C <sup>2</sup>	180	Pa · s
Curing Time		
100°C	2.0 to 3.0	hr
85°C	3.0 to 4.0	hr
Pot Life	240	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	90	
Tensile Strength	60.7	MPa
Compression Strength	103	MPa
Electric Strength	19	kV/mm
Relative Permittivity (60 Hz)	6.40	

Volume Resistivity	1.5E+15	ohms·cm
Dissipation Factor (60 Hz)	0.015	
NOTE		
1.	Part B	
2.	Part A	

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