

Epoxies, Ect. 50-2369

Polyurethane
Epoxies, Etc.

Message:

The 50-2369FR Potting and Encapsulating Compound has been formulated to meet the stringent non-burning requirements of UL94 V-0. 50-2369 FR Urethane is listed with Underwriter's Laboratory for passing UL94 V-0. This system offers excellent heat transfer, low exotherm, and excellent electrical properties.

This system is a good choice for potting applications containing surface mount components or any application requiring low stress, thermal conductivity and flame retardancy. 50-2369 FR is suitable for outdoor use.

Features:

- Low viscosity
- Low stress on sensitive components
- Excellent electrical insulation
- Excellent water resistance
- Low shrinkage
- Thermal shock resistance
- Thermally conductive
- Flame retardant (UL 94 V-O Listed)

General Information			
Features	Electrically Insulating		
	Flame Retardant		
	Good Thermal Shock Resistance		
	Low Exotherm		
	Low Shrinkage		
	Low to No Water Absorption		
	Low Viscosity		
	Thermally Conductive		
Uses	Electrical Parts		
	Electrical/Electronic Applications		
	Insulation		
	Outdoor Applications		
Appearance	Dark Grey		
Processing Method	Encapsulating		
	Potting		
Physical	Nominal Value	Unit	
Molding Shrinkage - Flow	0.20	%	
Thermal	Nominal Value	Unit	
CLTE - Flow	1.6E-4	cm/cm/°C	
Thermal Conductivity	1.2	W/m/K	
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	6.0E+17	ohms	
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information	Nominal Value	Unit	
Operating Temperature	-65.0 to 135	°C	
Thermal Shock (-60 to 130°C)	Pass		
Uncured Properties	Nominal Value	Unit	
Color	Grey		
Mix Ratio by Weight (PBW)			
Part A	100		
Part B	20		
Mix Ratio by Volume (PBV)			
Part A	100		
Part B	26		
Density			
25°C ¹	1.21	g/cm ³	
25°C ²	1.57	g/cm ³	
Viscosity			
-- ³	0.15	Pa · s	
-- ⁴	15	Pa · s	
Curing Time			
100°C	0.33 to 0.50	hr	
60°C	2.0	hr	
25°C	24	hr	
Shelf Life	12	month	
Cured Properties	Nominal Value	Unit	
Water Absorption			
-- ⁵	0.074	%	
-- ⁶	0.18	%	
Shore Hardness (Shore D)	75		
Tensile Strength	241	MPa	
Tensile Elongation at Break	20	%	
Electric Strength	21	kV/mm	
Relative Permittivity (100 Hz)	4.30		
Volume Resistivity	2.1E+14	ohms · cm	
NOTE			
1.	Part B		
2.	Part A		
3.	Part B		
4.	Part A		
5.	24 hours immersion		
6.	7 days immersion		

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