

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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

