

Epoxies, Ect. 50-2366 FR

Polyurethane
Epoxies, Etc.

Message:

50-2366FR is a new thermally conductive polyurethane potting compound. This flexible system is designed for low stress on sensitive components during and after cure. 50-2366FR polyurethane resin system is formulated for applications requiring low exotherm, low shrinkage, 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. 50-2366FR is suitable for outdoor use.

For a very fast curing version of this product consider the 50-2370FR. This product will be tack free in 20 minutes.

50-2366FR is fungus resistant and passes Fungus Resistance Testing (MIL-STD-810F, Method 508.5).

- Features:
- Low viscosity
 - Low stress on sensitive components
 - Excellent electrical insulation
 - Excellent water resistance
 - Low shrinkage
 - Thermal shock resistance
 - Thermally conductive
 - Flame retardant

General Information		
Features	Electrically Insulating	
	Fast Cure	
	Flame Retardant	
	Fungus Resistant	
	Good Thermal Shock Resistance	
	Low Shrinkage	
	Low to No Water Absorption	
	Low Viscosity	
	Thermally Conductive	
Uses	Electrical/Electronic Applications	
	Outdoor Applications	
Agency Ratings	MIL Std. 810, type 508.5	
Appearance	Black	
Processing Method	Potting	
Physical	Nominal Value	Unit
Molding Shrinkage - Flow	0.50	%
Thermal	Nominal Value	Unit
CLTE - Flow	1.6E-4	cm/cm/°C
Thermal Conductivity	1.2	W/m/K
Electrical	Nominal Value	Unit
Surface Resistivity	6.0E+17	ohms

Additional Information	Nominal Value	Unit
Operating Temperature	-65.0 to 135	°C
Thermal Shock (-60 to 135°C)	Pass	
Uncured Properties	Nominal Value	Unit
Color	Black	
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	1.56	g/cm ³
Viscosity		
-- ³	0.15	Pa·s
-- ⁴	17	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)	65	
Tensile Strength	15.2	MPa
Tensile Elongation at Break	35	%
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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