

Epoxies, Ect. 50-3152 FR

Epoxy; Epoxide

Epoxies, Etc.

Message:

50-3152 FR Potting and Encapsulating Compound has been formulated to meet the stringent non-burning requirements of UL 94 V-0. 50-3152FR Epoxy is listed with Underwriter's Laboratories for passing UL 94 V-0. It also has a Comparative Tracking Index (CTI) of >600 Volts (PLC 0). 50-3152 FR is a two component epoxy potting and encapsulating system. This semi-rigid epoxy has excellent shock and vibration resistance along with good thermal conductivity. 50-3152 FR is designed for ease of use. It has a convenient 1:1 mix ratio and is low in viscosity.

Features:

- Thermally conductive
- Easy 1:1 ratio
- Shock and vibration resistant

Benefits:

- Protects electronics by quickly transferring heat
- Simple to use in production
- Will not damage electronic components

General Information			
Features	Flame Retardant		
	Low Viscosity		
	Semi Rigid		
	Shock Resistant		
	Thermally Conductive		
Uses	Electrical Parts		
	Electrical/Electronic Applications		
Appearance	Black		
Processing Method	Encapsulating		
	Potting		
Thermal	Nominal Value	Unit	
Thermal Conductivity	1.0	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (CTI)	600	V	
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity (25°C)	31000	cP	
Additional Information	Nominal Value	Unit	
Operating Temperature	-40.0 to 135	°C	
Uncured Properties	Nominal Value	Unit	
Color			

-- 1	Beige	
-- 2	Black	
-- 3	Black	
Mix Ratio by Weight (PBW)		
Part A	1.0	
Part B	1.0	
Density		
25°C ⁴	1.49	g/cm ³
25°C ⁵	1.55	g/cm ³
Viscosity		
25°C ⁶	20	Pa·s
25°C ⁷	64	Pa·s
Curing Time		
100°C	0.50	hr
65°C	2.0 to 3.0	hr
25°C	24 to 48	hr
Pot Life ⁸ (25°C)	100	min
Cured Properties	Nominal Value	Unit
Shore Hardness		
Shore D, 65°C	50	
Shore D, 25°C	80	
Lap Shear Strength ⁹	17.2	MPa
Compression Strength	51.7	MPa
Electric Strength	16	kV/mm
Relative Permittivity (100 Hz)	5.00	
Volume Resistivity (25°C)	7.6E+13	ohms·cm
NOTE		
1.	Part B	
2.	Mixed	
3.	Part A	
4.	Part B	
5.	Part A	
6.	Part A	
7.	Part B	
8.	100 grams	
9.	Al to Al	

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

