EPO-TEK® 920-FL

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® 920-FL is a two component, high Tg, electrically insulating, thermally conductive epoxy designed for thermal management applications found in semiconductor, hybrid microelectronics, PCB, and optical industries. It is a low viscosity version of EPO-TEK® 920.

General Information	
Features	Electrically Insulating
	Good Adhesion
	Low Viscosity
	Thermally Conductive
Uses	Adhesives
	Electrical/Electronic Applications
	Optical Applications
	Printed Circuit Boards
	Seals
Agency Ratings	EC 1907/2006 (REACH)
	EU 2003/11/EC
	EU 2006/122/EC
RoHS Compliance	RoHS Compliant
Forms	Paste
Processing Method	Casting
	Potting

Physical	Nominal Value	Unit	
Particle Size	< 50.0	µm	
Degradation Temperature	362	°C	TGA
Die Shear Strength - >20 kg (23°C)	46.9	MPa	
Operating Temperature			
Continuous	-55 to 200	°C	
Intermittent	-55 to 300	°C	
Storage Modulus (23°C)	5.40	GPa	
Thixotropic Index	3.10		
Weight Loss on Heating			
200°C	0.20	%	
250°C	0.28	%	

300°C	0.48	%	
Thermal	**Nominal Value**	**Unit**	
Glass Transition Temperature [1]	> 90.0	°C	
CLTE - Flow			
-- [2]	2.1E-5	cm/cm/°C	
-- [3]	9.7E-5	cm/cm/°C	
Thermal Conductivity	0.89	W/m/K	
Thermoset	**Nominal Value**	**Unit**	**Test Method**
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 3.0		
Shelf Life (23°C)	52	wk	
Uncured Properties	**Nominal Value**	**Unit**	**Test Method**
Color			
-- [4]	Amber		
-- [5]	Grey		
Density			
Part B	1.02	g/cm³	
Part A	2.51	g/cm³	
Viscosity [6] (23°C)	8.0 to 12	Pa·s	
Curing Time (150°C)	1.0	hr	
Pot Life	420	min	
Cured Properties	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	93		
Lap Shear Strength (23°C)	> 13.8	MPa	
Relative Permittivity (1 kHz)	5.96		
Volume Resistivity (23°C)	> 4.0E+13	ohms·cm	
Dissipation Factor (1 kHz)	9.0E-3		

NOTE	
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -40-200°C @ 20°C/Min
2.	Below Tg
3.	Above Tg
4.	Part B
5.	Part A
6.	20 rpm

Recommended distributors for this material

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