

EPO-TEK® CF6-2

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® CF6-2 is a two component, high temperature and high Tg epoxy designed for fiber optic packaging.

General Information			
Features	Autoclave Sterilizable		
	Ethylene Oxide Sterilizable		
	High Heat Resistance		
	Low to No Outgassing		
	Low Viscosity		
	Radiation Sterilizable		
Uses	Electrical/Electronic Applications		
	Impregnation Applications		
	Medical/Healthcare Applications		
	Optical Applications		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2003/11/EC		
	EU 2006/122/EC		
RoHS Compliance	RoHS Compliant		
Forms	Liquid		
Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 110	°C	
CLTE - Flow			
-- ²	6.9E-5	cm/cm/°C	
-- ³	1.8E-4	cm/cm/°C	
Optical	Nominal Value	Unit	
Refractive Index ⁴	1.534		
Transmittance (700 to 2000 nm)	> 97.0	%	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 1.0		
Part B	Mix Ratio by Weight: 1.0		
Shelf Life (23°C)	52	wk	
Additional Information	Nominal Value	Unit	Test Method
Degradation Temperature	360	°C	TGA

Die Shear Strength - > 15 kg (23°C)	35.2	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	1.98	GPa
Weight Loss on Heating		
250°C	0.13	%
300°C	0.69	%

Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- 5	Amber		
-- 6	Clear/Transparent		
Density			
Part A	1.21	g/cm ³	
Part B	1.22	g/cm ³	
Viscosity ⁷ (23°C)	0.80 to 1.2	Pa · s	
Curing Time (150°C)	1.0	hr	
Pot Life	1100	min	

Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	84		
Lap Shear Strength (23°C)	7.89	MPa	
Relative Permittivity (1 kHz)	2.99		
Volume Resistivity (23°C)	> 1.8E+13	ohms · cm	
Dissipation Factor (1 kHz)	5.0E-3		

NOTE	
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min
2.	Below Tg
3.	Above Tg
4.	589 nm
5.	Part B
6.	Part A
7.	100 rpm

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