

Epoxy Technology EPO-TEK® CF6-2 High Temperature Epoxy

Category : Polymer , Thermoset , Epoxy , Epoxy, High Temperature

Material Notes:

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

Advantages & Application Notes: The low viscosity nature allows for wicking and impregnating into fiber optic bundles, commonly found in medical or sensor industries. Low outgassing nature makes it ideal for high temperature fiber optic environments. Suggested

applications: Medical: Adhering fiber bundles into ferrules, adhesion to stainless steel, rigid and flexible endoscopes, withstands medical sterilization such as autoclave, gamma, or ETO. Sensor Devices: down hole fiber sensors for petro-chemical industries. High power laser light beam delivery. Optics: Spectral Transmission in the VIS and IR region > 600 nm range. Amber color change upon cure allows for visual ID inspection of cure. Convenient 1:1 mix ratio allows for static mixing, or specialty packaging in double-barrel syringes. Information

Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-CF6-2-High-Temperature-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	Part A
	1.22 g/cc	1.22 g/cc	Part B
Viscosity	800 - 1200 cP	800 - 1200 cP	100 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	84	84	
Tensile Modulus	1.98 GPa	287 ksi	Storage
Shear Strength	7.888 MPa	1144 psi	Lap
	>= 35.2 MPa	>= 5100 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	69.0 µm/m-°C	38.3 µin/in-°F	Below Tg
	175 µm/m-°C	97.2 µin/in-°F	Above Tg
Maximum Service Temperature, Air	200 °C	392 °F	Continuous
	300 °C	572 °F	Intermittent
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	Continuous
	-55.0 °C	-67.0 °F	Intermittent

Thermal Properties	Metric	English	Comments
Decomposition Temperature	360 °C	680 °F	Degradation Temperature

Optical Properties	Metric	English	Comments
Refractive Index	1.5336	1.5336	
	@Wavelength 589 nm	@Wavelength 589 nm	
Transmission, Visible	>= 97 %	>= 97 %	Spectral
	@Wavelength 700 - 2000 nm	@Wavelength 700 - 2000 nm	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.80e+13 ohm-cm	>= 1.80e+13 ohm-cm	
Dielectric Constant	2.99	2.99	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0050	0.0050	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	Minimum Bond Line
	@Temperature 150 °C	@Temperature 302 °F	
Pot Life	1080 min	1080 min	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Amber	Part B
	Clear/Colorless	Part A
Consistency	Pourable liquid	
Mix Ratio By Weight	1:1	
Number of Components	Two	
Weight Loss	0.13%	250°C
	0.69%	300°C

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