

Epoxy Technology EPO-TEK® MA-5 Optical Grade Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

Material Description: A single component, B-stageable, optical grade epoxy for fiber optic assembly. It may be used for B-stage sealing of fiber cables into ferrules, or fiber optic feed through into the opto-package. B-stage adhesive joining of glass or optics can also be realized. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-MA-5-Optical-Grade-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	
Viscosity	100 - 300 cP	100 - 300 cP	100 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	
Tensile Modulus	1.48 GPa	215 ksi	Storage
Shear Strength	>= 23.4 MPa	>= 3400 psi	Die
	81.793 MPa	11863 psi	Lap

Thermal Properties	Metric	English	Comments
CTE, linear	63.0 µm/m-°C	35.0 µin/in-°F	Below Tg
	128 µm/m-°C	71.1 µin/in-°F	Above Tg
Maximum Service Temperature, Air	250 °C	482 °F	Continuous
	350 °C	662 °F	Intermittent
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	Continuous
	-55.0 °C	-67.0 °F	Intermittent
Glass Transition Temp, Tg	120 °C	248 °F	
Decomposition Temperature	445 °C	833 °F	Degradation Temperature

Optical Properties	Metric	English	Comments
Refractive Index	1.4898	1.4898	

Optical Properties	@Wavelength 589 nm Metric	@Wavelength 589 nm English	Comments
Transmission, Visible	>= 95 %	>= 95 %	Spectral
	@Wavelength 500 - 1600 nm	@Wavelength 500 - 1600 nm	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+12 ohm-cm	>= 1.00e+12 ohm-cm	
Dielectric Constant	2.92	2.92	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.011	0.011	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	minimum, B-stage cure
	@Temperature 70.0 °C	@Temperature 158 °F	
	60.0 min	1.00 hour	minimum
	@Temperature 150 °C	@Temperature 302 °F	
Pot Life	180 min	180 min	
Shelf Life	12.0 Month	12.0 Month	refrigerated

Descriptive Properties	Value	Comments
Color	Light Amber	
Consistency	Pourable liquid	
Number of Components	Single	
Weight Loss	0.36%	200°C
	0.79%	250°C
	2.05%	300°C

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China