

Epoxy Technology EPO-TEK® OE101 Two Component Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

Material Description: A two component epoxy designed for low stress applications in fiber optic packaging, opto-electronics and semiconductors. It is a lower modulus version of EPO-TEK® 353ND. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-OE101-Two-Component-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	Part B
	1.16 g/cc	1.16 g/cc	Part A
Viscosity	1500 - 2500 cP	1500 - 2500 cP	100 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	
Tensile Modulus	2.47 GPa	359 ksi	Storage
Shear Strength	>= 13.8 MPa	>= 2000 psi	Lap
	>= 35.2 MPa	>= 5100 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	41.0 µm/m-°C	22.8 µin/in-°F	Below Tg
	210 µm/m-°C	117 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
Glass Transition Temp, Tg	>= 65.0 °C	>= 149 °F	Dynamic Cure 20–200°C /ISO 25 Min; Ramp 10–200°C @ 20°C/Min
Decomposition Temperature	456 °C	853 °F	Degradation Temperature

Optical Properties	Metric	English	Comments
	1.5459	1.5459	

Refractive Index Optical Properties	Metric @Wavelength 589 nm	English @Wavelength 589 nm	uncured Comments
Transmission, Visible	>= 50 %	>= 50 %	Spectral
	@Wavelength 400 nm	@Wavelength 400 nm	
	>= 92 %	>= 92 %	Spectral
	@Wavelength 600 nm	@Wavelength 600 nm	
	>= 97 %	>= 97 %	Spectral
	@Wavelength 675 nm	@Wavelength 675 nm	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.50e+13 ohm-cm	>= 1.50e+13 ohm-cm	
Dielectric Constant	3.22	3.22	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0036	0.0036	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	1.00 min	0.0167 hour	minimum
	@Temperature 150 °C	@Temperature 302 °F	
	5.00 min	0.0833 hour	minimum
	@Temperature 125 °C	@Temperature 257 °F	
	10.0 min	0.167 hour	minimum
	@Temperature 100 °C	@Temperature 212 °F	
	30.0 min	0.500 hour	minimum
	@Temperature 80.0 °C	@Temperature 176 °F	
Pot Life	240 min	240 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 Yellow	Part A
Consistency	Pourable liquid	

Descriptive Properties	Value	Comments
Mix Ratio By Weight	10:1	
Number of Components	Two	
Weight Loss	0.6%	200°C
	0.82%	250°C
	1.22%	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