

## Epoxy Technology EPO-TEK® OE120 Two Component Epoxy

Category : Polymer , Thermoset , Epoxy

### Material Notes:

Material Description: A two component, opaque epoxy, designed for fiber optics packaging applications. It is a black-colored version of EPO-TEK 353ND-T. It has a high Tg for resisting elevated operating temperatures found in medical fiber optics or hybrid-microelectronic applications. Information Provided by Epoxy Technology

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Epoxy-Technology-EPO-TEK-OE120-Two-Component-Epoxy.php](http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-OE120-Two-Component-Epoxy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	Part B
	1.21 g/cc	1.21 g/cc	Part A
Particle Size	<= 20 µm	<= 20 µm	
Viscosity	12000 - 16000 cP	12000 - 16000 cP	20 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	
Tensile Modulus	3.18 GPa	461 ksi	Storage
Shear Strength	>= 13.8 MPa	>= 2000 psi	Lap
	>= 35.2 MPa	>= 5100 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	28.0 µm/m-°C	15.6 µin/in-°F	Below Tg
	121 µm/m-°C	67.2 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	>= 90.0 °C	>= 194 °F	Dynamic Cure 20–200°C /ISO 25 Min; Ramp 10–200°C @ 20°C/Min
Decomposition Temperature	402 °C	756 °F	Degradation Temperature

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 6.00e+12 ohm-cm	>= 6.00e+12 ohm-cm	
Dielectric Constant	3.47	3.47	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.010	0.010	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	2.00 min	0.0333 hour	minimum
	@Temperature 120 °C	@Temperature 248 °F	
	10.0 min	0.167 hour	minimum
	@Temperature 100 °C	@Temperature 212 °F	
	20.0 min	0.333 hour	minimum
	@Temperature 80.0 °C	@Temperature 176 °F	
Pot Life	210 min	210 min	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Amber	Part B
	Black	Part A
Consistency	Smooth thixotropic paste	
Mix Ratio By Weight	10:1	
Number of Components	Two	
Weight Loss	0.07%	200°C
	0.38%	250°C
	1.12%	300°C

## Contact Songhan Plastic Technology Co.,Ltd.

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