

## Epoxy Technology EPO-TEK® 353ND-T1 High Temperature Thixotropic Epoxy

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

### Material Notes:

Material Description: A two component, thixotropic and high temperature epoxy designed for fiber optic, electronics and medical applications. It is a more viscous alternative to EPO-TEK® 353ND-T. Information Provided by Epoxy Technology

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Epoxy-Technology-EPO-TEK-353ND-T1-High-Temperature-Thixotropic-Epoxy.php](http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-353ND-T1-High-Temperature-Thixotropic-Epoxy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	Part B
	1.18 g/cc	1.18 g/cc	Part A
Particle Size	<= 20 µm	<= 20 µm	
Viscosity	12000 - 20000 cP	12000 - 20000 cP	20 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Tensile Modulus	3.8550 GPa	559.12 ksi	Storage
Shear Strength	13.47 MPa	1953 psi	Lap
	>= 35.2 MPa	>= 5100 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	43.0 µm/m-°C	23.9 µin/in-°F	Below Tg
	231 µm/m-°C	128 µin/in-°F	Above Tg
Maximum Service Temperature, Air	225 °C	437 °F	Continuous
	325 °C	617 °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	409 °C	768 °F	Degradation Temperature

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 4.00e+12 ohm-cm	>= 4.00e+12 ohm-cm	
Dielectric Constant	3.21	3.21	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0030	0.0030	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	1.00 min	0.0167 hour	Minimum Bond Line
	@Temperature 150 °C	@Temperature 302 °F	
	5.00 min	0.0833 hour	Minimum Bond Line
	@Temperature 120 °C	@Temperature 248 °F	
	10.0 min	0.167 hour	Minimum Bond Line
	@Temperature 100 °C	@Temperature 212 °F	
	30.0 min	0.500 hour	Minimum Bond Line
	@Temperature 80.0 °C	@Temperature 176 °F	
Pot Life	180 min	180 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
	Tan	Part A
Consistency	Smooth, thixotropic paste	
Mix Ratio By Weight	10:1	
Number of Components	Two	
Thixotropic Index	2.6	
Weight Loss	0.53%	200°C
	1.22%	250°C
	2.37%	300°C

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