

Epoxy Technology EPO-TEK® 360T High Temperature Epoxy

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

Material Notes:

Material Description: A two component, high-temperature grade, electrically and thermally insulating epoxy for semiconductor, electronics, fiber optics and medical applications. It is a thixotropic paste for non-flow properties. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-360T-High-Temperature-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
Particle Size	<= 20 µm	<= 20 µm	
Viscosity	4000 - 6000 cP	4000 - 6000 cP	50 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	
Tensile Modulus	2.19 GPa	318 ksi	Storage
Shear Strength	13.77 MPa	1997 psi	Lap
	>= 23.4 MPa	>= 3400 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	53.0 µm/m-°C	29.4 µin/in-°F	Below Tg
	146 µm/m-°C	81.1 µin/in-°F	Above Tg
Maximum Service Temperature, Air	175 °C	347 °F	Continuous
	275 °C	527 °F	Intermittent
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	Continuous
	-55.0 °C	-67.0 °F	Intermittent
Glass Transition Temp, Tg	>= 80.0 °C	>= 176 °F	Dynamic Cure 20—200°C /ISO 25 Min; Ramp 10—200°C @ 20°C/Min
Decomposition Temperature	341 °C	646 °F	Degradation Temperature

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\leq 2.00 \times 10^{13}$ ohm-cm	$\leq 2.00 \times 10^{13}$ ohm-cm	
Dielectric Constant	3.84	3.84	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.014	0.014	
	@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	
	10.0 min	0.167 hour	minimum
	@Temperature 100 °C	@Temperature 212 °F	
Pot Life	240 min	240 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	Thixotropic paste	
Mix Ratio By Weight	100:10	
Number of Components	Two	
Thixotropic Index	5.1	
Weight Loss	0.59%	200°C
	1.79%	250°C
	4.26%	300°C

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