

Epoxy Technology EPO-TEK® 383ND High Temperature Epoxy

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

Material Notes:

Material Description: A slightly longer pot life version of EPO-TEK®353ND designed for high temperature, optical and structural applications inside the semiconductor, hybrid, electronic, fiber optic and medical industries. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-383ND-High-Temperature-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.990 g/cc	0.990 g/cc	Part B
	1.20 g/cc	1.20 g/cc	Part A
Particle Size	<= 20 µm	<= 20 µm	
Viscosity	3500 - 6000 cP	3500 - 6000 cP	50 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88	88	
Tensile Modulus	2.54 GPa	369 ksi	Storage
Shear Strength	>= 13.8 MPa	>= 2000 psi	Lap
	>= 46.9 MPa	>= 6800 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	34.0 µm/m-°C	18.9 µin/in-°F	Below Tg
	129 µm/m-°C	71.7 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	>= 100 °C	>= 212 °F	Dynamic Cure 20–200°C /ISO 25 Min; Ramp 10–200°C @ 20°C/Min
Decomposition Temperature	415 °C	779 °F	Degradation Temperature

Optical Properties	Metric	English	Comments
Refractive Index	1.5715	1.5715	
	@Wavelength 589 nm	@Wavelength 589 nm	
Transmission, Visible	>= 90 %	>= 90 %	Spectral
	@Wavelength 520 - 1660 nm	@Wavelength 520 - 1660 nm	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 3.00e+13 ohm-cm	>= 3.00e+13 ohm-cm	
Dielectric Constant	2.58	2.58	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0080	0.0080	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	30.0 min	0.500 hour	minimum
	@Temperature 90.0 °C	@Temperature 194 °F	
Pot Life	480 min	480 min	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Clear	Part A
	Slightly Yellow	Part B
Consistency	Pourable liquid	
Mix Ratio By Weight	10:1	
Number of Components	Two	
Weight Loss	0.28%	200°C
	0.42%	250°C
	0.86%	300°C

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