

Epoxy Technology EPO-TEK® OD2002 High Temperature Epoxy

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

Material Notes:

Material Description: High Tg version of EPO-TEK®353ND with low modulus and good toughness. Replacement for EPO-TEK® 364.

Complies with USP Class VI biocompatibility standards. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-OD2002-High-Temperature-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	Part B
	1.20 g/cc	1.20 g/cc	Part A
Viscosity	24000 - 42000 cP	24000 - 42000 cP	2.5 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	69	69	
Tensile Modulus	1.82 GPa	263 ksi	Storage
Shear Strength	10.8 MPa	1570 psi	Lap
	>= 23.4 MPa	>= 3400 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	45.0 µm/m-°C	25.0 µin/in-°F	Below Tg
	187 µm/m-°C	104 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	>= 140 °C	>= 284 °F	Dynamic Cure 20–200°C /ISO 25 Min; Ramp 10–200°C @ 20°C/Min
Decomposition Temperature	443 °C	829 °F	Degradation Temperature

Optical Properties	Metric	English	Comments
	1.5728	1.5728	

Refractive Index Optical Properties	Metric	English	Comments
	@Wavelength 589 nm	@Wavelength 589 nm	
Transmission, Visible	69 %	69 %	Spectral
	@Wavelength 600 nm	@Wavelength 600 nm	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 2.00e+12 ohm-cm	>= 2.00e+12 ohm-cm	
Dielectric Constant	2.83	2.83	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.011	0.011	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	5.00 min	0.0833 hour	minimum
	@Temperature 150 °C	@Temperature 302 °F	
	15.0 min	0.250 hour	minimum
	@Temperature 120 °C	@Temperature 248 °F	
	30.0 min	0.500 hour	minimum
	@Temperature 100 °C	@Temperature 212 °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
	Cloudy	Part A
Consistency	Pourable paste	
Mix Ratio By Weight	20:1	
Number of Components	Two	
Weight Loss	<0.05%	200°C
	<0.05%	250°C
	<0.05%	300°C

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