

Epoxy Technology EPO-TEK® 353ND-T High Temperature Thixotropic Epoxy

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

Material Notes:

Product Description: EPO TEK® 353ND-T is a two component, highly thixotropic epoxy with non-flowing properties and high temperature resistance. **Advantages & Application Notes:** Suitable for fiber optic, medical grade, circuit assembly applications. Recommended for bonding metals, glass, ceramics and many types of plastic. High temperature adhesive for hybrids and medical devices; it can resist within the 300°C range for long periods of time. Circuit assembly applications; staking SMDs to PCB, bonding ferrite cores together in copper coil windings and inductor coils and power devices; suitable for COB glob top DAM material. Alternative product versions available with distinct viscosity ranges EPO TEK® 353ND-T can be applied by screen printing, spatula, hand held or automatic dispensing equipment. Amber color change when properly cured for easy visual ID and inspection. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-353ND-T-High-Temperature-Thixotropic-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	Part B
	1.12 g/cc	1.12 g/cc	Part A
Particle Size	<= 20 µm	<= 20 µm	
Viscosity	9000 - 15000 cP	9000 - 15000 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

Thermal Properties	Metric	English	Comments
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	

Chemical Properties	Metric	English	Comments
Ionic Impurities - Na (Sodium)	143 ppm	143 ppm	
Ionic Impurities - K (Potassium)	15 ppm	15 ppm	
Ionic Impurities - Cl (Chloride)	471 ppm	471 ppm	

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	12.0 Month	12.0 Month	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Amber	Part B
	Tan	Part A

Consistency Descriptive Properties	Smooth, thixotropic paste Value	Comments
Ionic Impurities NH4	400 ppm	
Mix Ratio By Weight	10:1	
Number of Components	Two	
Thixotropic Index	3.8	
Weight Loss	0.53%	200°C
	1.22%	250°C
	2.37%	300°C

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