

Epoxy Technology EPO-TEK® 731 Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

Material Description: A two component, thixotropic, room temperature-curing epoxy adhesive. It is an electrically and thermally insulating epoxy designed for general applications in semiconductor packaging, electronics, medical, and optical industries. A higher viscosity version of EPO-TEK® 730. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-731-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.970 g/cc	0.970 g/cc	Part A
	1.12 g/cc	1.12 g/cc	Part B
Particle Size	<= 20 µm	<= 20 µm	
Viscosity	175000 - 275000 cP	175000 - 275000 cP	1 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	
Tensile Modulus	1.36 GPa	197 ksi	Storage
Shear Strength	>= 13.8 MPa	>= 2000 psi	Lap
	>= 23.4 MPa	>= 3400 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	74.0 µm/m-°C	41.1 µin/in-°F	Below Tg
	168 µm/m-°C	93.3 µin/in-°F	Above Tg
Maximum Service Temperature, Air	200 °C	392 °F	Continuous
	300 °C	572 °F	Intermittent
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	Continuous
	-55.0 °C	-67.0 °F	Intermittent
Glass Transition Temp, Tg	>= 55.0 °C	>= 131 °F	Dynamic Cure 20–200°C /ISO 25 Min; Ramp 10–200°C @ 20°C/Min

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Dielectric Constant	3.38	3.38	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.028	0.028	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	30.0 min	0.500 hour	minimum
	@Temperature 100 °C	@Temperature 212 °F	
	1440 min	24.0 hour	minimum
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Pot Life	90 min	90 min	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Tan	Part A
	Tan	Part B
Consistency	Smooth paste	
Mix Ratio By Weight	1:1	
Number of Components	Two	
Weight Loss	0.47%	200°C
	0.92%	250°C
	1.62%	300°C

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