

Epoxy Technology EPO-TEK® H81A Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

Material Description: A two component, gold-filled, electrically and thermally conductive epoxy designed for hybrid microelectronic and semiconductor packaging. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-H81A-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	5.62 g/cc	5.62 g/cc	Part B
	5.80 g/cc	5.80 g/cc	Part A
Particle Size	<= 50 µm	<= 50 µm	
Viscosity	250000 - 300000 cP	250000 - 300000 cP	0.5 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Shear Strength	>= 11.7 MPa	>= 1700 psi	Die

Thermal Properties	Metric	English	Comments
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	412 °C	774 °F	Degradation Temperature

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 0.00090 ohm-cm	<= 0.00090 ohm-cm	

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	Minimum
	@Temperature 150 °C	@Temperature 302 °F	
Pot Life	2880 min	2880 min	

Processing Properties	Metric 12.0 Month	English 12.0 Month	Comments
Shelf Life	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Dark Brown	Part A
	Dark Brown	Part B
Consistency	Thick paste	
Mix Ratio By Weight	6:1	
Number of Components	Two	
Weight Loss	<0.5%	200°C
	0.07%	250°C
	0.16%	300°C

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