

Epoxy Technology EPO-TEK® H44 Gold-Filled, Electrically Conductive Epoxy

Category : Polymer , Thermoset , Epoxy , Epoxy , Electrically Conductive

Material Notes:

Product Description: EPO-TEK® H44 is a single component, gold-filled, electrically conductive epoxy adhesive designed for hybrid microelectronic packaging. **Advantages & Application Notes:** High viscosity paste. Users should not expect the same creamy viscosity as silver-filled epoxies. Design engineers need to be aware of longer lead times and shorter shelf-life than traditional silver-filled epoxies. **Suggested applications for hybrid/hermetic packaging:** Die-attach and SMD attach instead of silver epoxy; avoiding silver migration inside sealed packages; medical and aerospace electronics and circuits. Passes NASA low outgassing standard ASTM E595 with proper cure information provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-H44-Gold-Filled-Electrically-Conductive-Epoxy.php

Physical Properties	Metric	English	Comments
Particle Size	<= 50 µm	<= 50 µm	
Viscosity	>= 819200 cP @Temperature 23.0 °C	>= 819200 cP @Temperature 73.4 °F	0.5 rpm

Mechanical Properties	Metric	English	Comments
Shear Strength	>= 23.4 MPa	>= 3400 psi	Die

Thermal Properties	Metric	English	Comments
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	>= 100 °C	>= 212 °F	Dynamic Cure 20–200°C /ISO 25 Min; Ramp -10–200°C @ 20°C/Min
Decomposition Temperature	388 °C	730 °F	Degradation Temperature

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 0.00050 ohm-cm	<= 0.00050 ohm-cm	

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	Minimum Bond Line
	@Temperature 150 °C	@Temperature 302 °F	

Processing Properties	Metric _{onth}	English _{onth}	Comments
Shrink Rate	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Brown	
Consistency	Smooth thick paste	
Number of Components	Single	
Weight Loss	0.06%	300°C

Contact Songhan Plastic Technology Co.,Ltd.

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