

Epoxy Technology EPO-TEK® EE165-3 Silver Filled Epoxy

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

Material Notes:

A two component, silver-filled, electrically conductive epoxy made for bonding of SMDs, and general solder replacement at the PCB level and circuit assembly. It was designed to be low modulus and flexible in order to resist PCB drop testing. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-EE165-3-Silver-Filled-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	Part B
	4.03 g/cc	4.03 g/cc	Part A
Particle Size	<= 20 µm	<= 20 µm	
Viscosity	13000 - 18000 cP	13000 - 18000 cP	20 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	77	77	
Tensile Modulus	1.38 GPa	201 ksi	Storage
Shear Strength	9.598 MPa	1392 psi	Lap
	>= 11.7 MPa	>= 1700 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 µm/m-°C	16.7 µin/in-°F	Below Tg
	212 µm/m-°C	118 µin/in-°F	Above Tg
Thermal Conductivity	2.30 W/m-K	16.0 BTU-in/hr-ft ² -°F	
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	>= 20.0 °C	>= 68.0 °F	Dynamic Cure 20–200°C /ISO 25 Min; Ramp -10–200°C @ 20°C/Min

Decomposition Temperature Thermal Properties	363 °C Metric	685 °F English	Degradation Temperature Comments
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Electrical Properties	Metric	English	Comments
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Volume Resistivity	<= 0.00020 ohm-cm	<= 0.00020 ohm-cm	
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Processing Properties	Metric	English	Comments
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Cure Time	60.0 min	1.00 hour	
	@Temperature 150 °C	@Temperature 302 °F	

Pot Life	120 min	2.00 hour	
	@Temperature 125 °C	@Temperature 257 °F	

Pot Life	600 min	600 min	
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Shelf Life	12.0 Month	12.0 Month	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
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Color	Amber	Part B
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	Silver	Part A
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Consistency	Smooth thixotropic paste	
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Mix Ratio By Weight	10:2.5	
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Number of Components	Two	
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Thixotropic Index	4.8	
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Weight Loss	0.26%	200°C
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	0.56%	250°C
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