

Epoxy Technology EPO-TEK® 337H Graphite-Filled, High Temperature Epoxy

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

Material Notes:

Product Description: EPO-TEK® 337H is a two component, high Tg, graphite filled epoxy designed for ESD/EMI shielding of semiconductor devices and electronics. It can be used in many electronic industries like consumer, military, medical, and optical / OEM/ fiber optics. It is an electrically conductive version of EPO-TEK®3377.
Advantages & Application Notes: Low viscosity - ideal for commercial and micro-dispensing applications. Suggested applications: Opto-electronics: Adhering IR filter windows to cap of TO-can; opaque epoxy resin in IR and VIS range; near hermetic sealing of windows and packages. Hybrid Microelectronics: adhesion to kovar, stainless steel, ceramics, glasses, lids or substrates in Rf/Microwave devices. Convenient 1:1 mix ratio allows for static mixing, or specialty packaging in double-barrel syringes. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-337H-Graphite-Filled-High-Temperature-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	Part A
	1.33 g/cc	1.33 g/cc	Part B
Particle Size	<= 40 µm	<= 40 µm	
Viscosity	500 - 1000 cP	500 - 1000 cP	100 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Tensile Modulus	2.8741 GPa	416.85 ksi	Storage
Shear Strength	>= 13.8 MPa	>= 2000 psi	Lap
	>= 23.4 MPa	>= 3400 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	56.0 µm/m-°C	31.1 µin/in-°F	Below Tg
	200 µm/m-°C	111 µin/in-°F	Above Tg
Thermal Conductivity	0.440 W/m-K	3.05 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	175 °C	347 °F	Continuous
	275 °C	527 °F	Intermittent
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	Continuous

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	>= 95.0 °C	>= 203 °F	Dynamic Cure 20–200°C /ISO 25 Min; Ramp -10–200°C @ 20°C/Min
Decomposition Temperature	345 °C	653 °F	Degradation Temperature; TGA

Optical Properties	Metric	English	Comments
Transmission, Visible	<= 0.10 % @Wavelength 400 - 1500 nm	<= 0.10 % @Wavelength 400 - 1500 nm	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 400 ohm-cm	>= 400 ohm-cm	

Processing Properties	Metric	English	Comments
Cure Time	60.0 min @Temperature 150 °C	1.00 hour @Temperature 302 °F	
Pot Life	1440 min	1440 min	
Shelf Life	12.0 Month @Temperature 25.0 °C	12.0 Month @Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Black	Part A
	Black	Part B
Consistency	Pourable liquid	
Mix Ratio By Weight	1:1	
Number of Components	Two	
Weight Loss	0.09%	200°C
	0.66%	250°C
	0.78%	300°C

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