

Epoxy Technology EPO-TEK® H61 Unfilled Epoxy Adhesive

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

Material Notes:

Material Description: A single component, high Tg, electrically insulating epoxy adhesive for semiconductor, microelectronic, and opto-electronic packaging applications. It is a liquid version of EPO-TEK® H61. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-H61-Unfilled-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	
Viscosity	2000 - 4000 cP @Temperature 23.0 °C	2000 - 4000 cP @Temperature 73.4 °F	100 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	
Tensile Modulus	2.00 GPa	290 ksi	Storage
Shear Strength	5.23 MPa	758 psi	Lap
	>= 35.2 MPa	>= 5100 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	49.0 µm/m-°C	27.2 µin/in-°F	Below Tg
	150 µm/m-°C	83.3 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	>= 110 °C	>= 230 °F	Dynamic Cure 20–200°C /ISO 25 Min; Ramp 10–200°C @ 20°C/Min
Decomposition Temperature	420 °C	788 °F	Degradation Temperature

Optical Properties	Metric	English	Comments
Refractive Index	1.5464 @Wavelength 589 nm	1.5464 @Wavelength 589 nm	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	
Dielectric Constant	3.63	3.63	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0070	0.0070	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Chemical Properties	Metric	English	Comments
Ionic Impurities - Na (Sodium)	275 ppm	275 ppm	
Ionic Impurities - K (Potassium)	15 ppm	15 ppm	
Ionic Impurities - Cl (Chloride)	12 ppm	12 ppm	

Processing Properties	Metric	English	Comments
Cure Time	30.0 min	0.500 hour	minimum
	@Temperature 150 °C	@Temperature 302 °F	
	60.0 min	1.00 hour	minimum
	@Temperature 120 °C	@Temperature 248 °F	
Pot Life	40320 min	40320 min	
Shelf Life	6.00 Month	6.00 Month	refrigerated

Descriptive Properties	Value	Comments
Color	Clear/Light Yellow	before cure
Consistency	Pourable liquid	
Number of Components	Single	
Weight Loss	0.38%	200°C
	0.64%	250°C
	0.84%	300°C

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China