

Epoxy Technology EPO-TEK® H55 Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

Material Description: A two component, thixotropic and high temperature epoxy designed to be used for hybrids and PCB applications. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-H55-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	Part B
	1.69 g/cc	1.69 g/cc	Part A
Particle Size	<= 10 µm	<= 10 µm	
Viscosity	250000 - 400000 cP	250000 - 400000 cP	1 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	
Tensile Modulus	3.77 GPa	547 ksi	Storage
Shear Strength	11.53 MPa	1672 psi	Lap
	>= 11.7 MPa	>= 1700 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 µm/m-°C	12.2 µin/in-°F	Below Tg
	79.0 µm/m-°C	43.9 µin/in-°F	Above Tg
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ft ² -°F	
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	465 °C	869 °F	Degradation Temperature

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.16e+14 ohm-cm	>= 1.16e+14 ohm-cm	
Dielectric Constant	6.32	6.32	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0080	0.0080	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	20.0 min	0.333 hour	minimum
	@Temperature 100 °C	@Temperature 212 °F	
	45.0 min	0.750 hour	minimum
	@Temperature 80.0 °C	@Temperature 176 °F	
Pot Life	180 min	180 min	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Amber	Part B
	White	Part A
Consistency	Thixotropic paste	
Mix Ratio By Weight	20:1	
Number of Components	Two	
Weight Loss	0.88%	200°C
	1.14%	250°C
	1.52%	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