

## Epoxy Technology EPO-TEK® H54 High Temperature Epoxy

Category : Polymer , Thermoset , Epoxy

### Material Notes:

**Product Description:** EPO-TEK® H54 is a two component, high Tg, electrically and thermally insulating epoxy adhesive for general bonding and high temperature packaging in medical, hybrid, and optical industries. **Advantages & Application Notes:** Thixotropic nature provides a non-sag adhesive, with wet green strength prior to cure. Color change from tan to amber upon successful cure. Versatile adhesive to most plastics, ceramics, metals, and glass. **Suggested Applications:** PCB; Staking SMD devices to the PCB for double-sided assembly. Bonding of ferrites for power-devices. Information Provided by Epoxy Technology

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Epoxy-Technology-EPO-TEK-H54-High-Temperature-Epoxy.php](http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-H54-High-Temperature-Epoxy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	Part A
	1.12 g/cc	1.12 g/cc	Part B
Particle Size	<= 20 µm	<= 20 µm	
Viscosity	9000 - 15000 cP	9000 - 15000 cP	20 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Tensile Modulus	3.8550 GPa	559.12 ksi	Storage
Shear Strength	13.47 MPa	1953 psi	Lap
	>= 35.2 MPa	>= 5100 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	43.0 µm/m-°C	23.9 µin/in-°F	Below Tg
	231 µm/m-°C	128 µin/in-°F	Above Tg
Maximum Service Temperature, Air	225 °C	437 °F	Continuous
	325 °C	617 °F	Intermittent
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	Continuous
	-55.0 °C	-67.0 °F	Intermittent
Glass Transition Temp, Tg	>= 90.0 °C	>= 194 °F	Dynamic Cure 20–200°C /ISO 25 Min; Ramp 10–200°C @ 20°C/Min

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 4.00e+12 ohm-cm	>= 4.00e+12 ohm-cm	
Dielectric Constant	3.21	3.21	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0030	0.0030	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	1.00 min	0.0167 hour	minimum
	@Temperature 150 °C	@Temperature 302 °F	
	5.00 min	0.0833 hour	minimum
	@Temperature 120 °C	@Temperature 248 °F	
	10.0 min	0.167 hour	minimum
	@Temperature 100 °C	@Temperature 212 °F	
Pot Life	180 min	180 min	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Descriptive Properties	Value	Comments
Color	Amber	Part B
	Tan	Part A
Consistency	Smooth Thixotropic paste	
Mix Ratio By Weight	10:1	
Number of Components	Two	
Weight Loss	0.02%	200°C
	0.45%	250°C
	1.46%	300°C

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