

Epoxy Technology EPO-TEK® EJ2189-LV Electrically Conductive Epoxy

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

Material Notes:

Low Viscosity, two component room temp curing conductive epoxyInformation Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-EJ2189-LV-Electrically-Conductive-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.940 g/cc	0.940 g/cc	Part B
	3.07 g/cc	3.07 g/cc	Part A
Particle Size	<= 45 µm	<= 45 µm	
Viscosity	25000 - 45000 cP	25000 - 45000 cP	1 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	41	41	
Tensile Modulus	1.47 GPa	214 ksi	Storage
Shear Strength	9.211 MPa	1336 psi	Lap
	>= 23.4 MPa	>= 3400 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	52.0 µm/m-°C	28.9 µin/in-°F	Below Tg
	89.0 µm/m-°C	49.4 µin/in-°F	Above Tg
Thermal Conductivity	2.00 W/m-K	13.9 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	150 °C	302 °F	Continuous
	250 °C	482 °F	Intermittent
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	Continuous
	-55.0 °C	-67.0 °F	Intermittent
Glass Transition Temp, Tg	>= 40.0 °C	>= 104 °F	Dynamic Cure 20–200°C /ISO 25 Min; Ramp -10–200°C @ 20°C/Min
Decomposition Temperature	340 °C	644 °F	Degradation Temperature

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 0.00050 ohm-cm	<= 0.00050 ohm-cm	
	@Temperature 150 °C, Time 3600 sec	@Temperature 302 °F, Time 1.00 hour	
	<= 0.0050 ohm-cm	<= 0.0050 ohm-cm	
	@Temperature 80.0 °C, Time 10800 sec	@Temperature 176 °F, Time 3.00 hour	
	<= 0.0090 ohm-cm	<= 0.0090 ohm-cm	
	@Temperature 23.0 °C, Time 259000 sec	@Temperature 73.4 °F, Time 72.0 hour	

Chemical Properties	Metric	English	Comments
Ionic Impurities - Na (Sodium)	27 ppm	27 ppm	
Ionic Impurities - K (Potassium)	2.0 ppm	2.0 ppm	
Ionic Impurities - Cl (Chloride)	201 ppm	201 ppm	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	
	@Temperature 150 °C	@Temperature 302 °F	
	180 min	3.00 hour	
	@Temperature 80.0 °C	@Temperature 176 °F	
	4320 min	72.0 hour	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Pot Life	240 min	240 min	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Consistency	Smooth flowing paste	
Ionic Impurities NH4	53 ppm	
Mix Ratio By Weight	10:1	
Number of Components	Two	
Thixotropic Index	3.3	

Descriptive Properties	Value	Comments
	0.8%	250°C
	1.58%	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