

Epoxy Technology EPO-TEK® EV2002 Silver-filled, electrically conductive, flexible epoxy

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

Material Notes:

Material Description: Silver-filled, electrically conductive, flexible epoxy Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-EV2002-Silver-filled-electrically-conductive-flexible-epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.71 g/cc	3.71 g/cc	Part A
	4.09 g/cc	4.09 g/cc	Part B
Particle Size	<= 45 µm	<= 45 µm	
Viscosity	24000 - 46000 cP	24000 - 46000 cP	5 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72	72	
Tensile Modulus	3.40 GPa	494 ksi	Storage
Shear Strength	9.046 MPa	1312 psi	Lap
	>= 11.7 MPa	>= 1700 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	37.0 µm/m-°C	20.6 µin/in-°F	Below Tg
	219 µm/m-°C	122 µin/in-°F	Above Tg
Thermal Conductivity	1.84 W/m-K	12.8 BTU-in/hr-ft²-°F	
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	>= 50.0 °C	>= 122 °F	Dynamic Cure 20–200°C /ISO 25 Min; Ramp -10–200°C @ 20°C/Min
Decomposition Temperature	402 °C	756 °F	Degradation Temperature

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 0.00050 ohm-cm	<= 0.00050 ohm-cm	

Chemical Properties	Metric	English	Comments
Ionic Impurities - Na (Sodium)	18 ppm	18 ppm	
Ionic Impurities - K (Potassium)	2.0 ppm	2.0 ppm	
Ionic Impurities - Cl (Chloride)	295 ppm	295 ppm	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min @Temperature 120 °C	0.250 hour @Temperature 248 °F	minimum
Pot Life	240 min	240 min	
Shelf Life	12.0 Month @Temperature 25.0 °C	12.0 Month @Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Silver	Part A
	Silver	Part B
Consistency	Smooth thixotropic paste	
Ionic Impurities NH4	29 ppm	
Mix Ratio By Weight	4:1	
Number of Components	Two	
Thixotropic Index	5.3	
Weight Loss	0.06%	200°C
	0.1%	250°C
	0.22%	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