

Epoxy Technology EPO-TEK® 430 Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

Product Description: A two component, copper-filled, electrically and thermally conductive epoxy for adhesive bonding in electronics. It may be used at the PCB level for interconnecting, grounding and EMI RF shielding. Fast curing at relatively low temperatures may be realized. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-430-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	Part B
	3.56 g/cc	3.56 g/cc	Part A
Particle Size	<= 50 µm	<= 50 µm	
Viscosity	300000 - 400000 cP	300000 - 400000 cP	1 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	
Tensile Modulus	4.19 GPa	608 ksi	Storage
Shear Strength	>= 11.7 MPa	>= 1700 psi	Die
	>= 13.8 MPa	>= 2000 psi	Lap

Thermal Properties	Metric	English	Comments
CTE, linear	28.0 µm/m-°C	15.6 µin/in-°F	Below Tg
	144 µm/m-°C	80.0 µin/in-°F	Above Tg
Thermal Conductivity	1.34 W/m-K	9.30 BTU-in/hr-ft²-°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	>= 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

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 0.0050 ohm-cm	>= 0.0050 ohm-cm	

Chemical Properties	Metric	English	Comments
Ionic Impurities - Na (Sodium)	5.0 ppm	5.0 ppm	
Ionic Impurities - K (Potassium)	>= 1.0 ppm	>= 1.0 ppm	
Ionic Impurities - Cl (Chloride)	33 ppm	33 ppm	

Processing Properties	Metric	English	Comments
Cure Time	30.0 min	0.500 hour	
	@Temperature 80.0 °C	@Temperature 176 °F	
	60.0 min	1.00 hour	
	@Temperature 60.0 °C	@Temperature 140 °F	
Pot Life	180 min	180 min	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Amber	Part B
	Brown Copper	Part A
Consistency	Thick paste	
Ionic Impurities NH4	63 ppm	
Mix Ratio By Weight	100:2.5	
Number of Components	Two	
Weight Loss	0.18%	200°C
	0.45%	300°C
	0.57%	250°C

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