

Epoxy Technology EPO-TEK® T7109-19 Electrically Insulating Epoxy Paste

Category : Polymer , Thermoset , Epoxy

Material Notes:

Material Description: A flexible, thermally conductive, electrically insulating epoxy paste designed for low stress and heat dissipation applications. It is an alternative to EPO-TEK® T7109-17, designed for higher strength. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-T7109-19-Electrically-Insulating-Epoxy-Paste.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.01 g/cc	1.01 g/cc	Part B
	1.36 g/cc	1.36 g/cc	Part A
Particle Size	<= 20 µm	<= 20 µm	
Viscosity	40000 - 70000 cP	40000 - 70000 cP	5 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	41	41	
Tensile Modulus	0.20637 GPa	29.931 ksi	Storage
Shear Strength	9.887 MPa	1434 psi	Lap
	11.7 MPa	1700 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	59.0 µm/m-°C	32.8 µin/in-°F	Below Tg
	216 µm/m-°C	120 µin/in-°F	Above Tg
Thermal Conductivity	1.30 W/m-K	9.02 BTU-in/hr-ft ² -°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	338 °C	640 °F	Degradation Temperature

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 5.00e+12 ohm-cm	>= 5.00e+12 ohm-cm	
Dielectric Constant	3.42	3.42	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.030	0.030	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Minimum
	@Temperature 80.0 °C	@Temperature 176 °F	
	2880 min	48.0 hour	Minimum
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Pot Life	120 min	120 min	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Clear/Colorless	Part B
	Gray	Part A
Consistency	Smooth paste	
Mix Ratio By Weight	100:15	
Number of Components	Two	
Thixotropic Index	2.7	
Weight Loss	0.41%	200°C
	0.68%	250°C
	1.44%	300°C

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