

Epoxy Technology EPO-TEK® T7109-18 Electrically Insulating Epoxy Paste

Category : Polymer , Thermoset , Epoxy

Material Notes:

Material Description: A flexible, electrically insulating epoxy paste designed for low stress and heat dissipation applications. Alternative to EPO-TEK® T7109-17. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-T7109-18-Electrically-Insulating-Epoxy-Paste.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	Part B
	1.86 g/cc	1.86 g/cc	Part A
Particle Size	<= 20 µm	<= 20 µm	
Viscosity	6500 - 10700 cP	6500 - 10700 cP	20 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	69	69	
Tensile Modulus	0.009873 GPa	1.432 ksi	Storage
Shear Strength	1.50 MPa	218 psi	Lap
	>= 2.34 MPa	>= 340 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	68.0 µm/m-°C	37.8 µin/in-°F	Below Tg
	200 µm/m-°C	111 µin/in-°F	Above Tg
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	125 °C	257 °F	Continuous
	225 °C	437 °F	Intermittent
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	Continuous
	-55.0 °C	-67.0 °F	Intermittent
Glass Transition Temp, Tg	>= 5.00 °C	>= 41.0 °F	Dynamic Cure 20–200°C /ISO 25 Min; Ramp 10–200°C @ 20°C/Min
Decomposition Temperature	294 °C	561 °F	Degradation Temperature

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 5.00e+9 ohm-cm	>= 5.00e+9 ohm-cm	
Dielectric Constant	5.63	5.63	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.070	0.070	
	@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	90 min	90 min	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Clear	Part B
	Gray	Part A
Consistency	Smooth flowing paste	
Mix Ratio By Weight	10:2	
Number of Components	Two	
Thixotropic Index	2.2	
Weight Loss	0.5%	200°C
	1.18%	250°C
	4.51%	300°C

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