

Epoxy Technology EPO-TEK® M10-D Epoxy Paste

Category : Polymer , Thermoset , Epoxy

Material Notes:

Material Description: A single component, B-stageable epoxy paste for semiconductor, microelectronics, and optical assemblies. It can be used in hybrid assemblies for lid-sealing and substrate attach. In opto-packaging, it can be used as the main gasket seal of glass plates in LCDs, or for sealing filter windows onto opto-sensors. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-M10-D-Epoxy-Paste.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	
Particle Size	<= 20 µm	<= 20 µm	
Viscosity	3000 - 6000 cP @Temperature 23.0 °C	3000 - 6000 cP @Temperature 73.4 °F	50 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72	72	
Tensile Modulus	3.98 GPa	577 ksi	Storage
Shear Strength	4.00 MPa	580 psi	Lap
	>= 23.4 MPa	>= 3400 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	35.0 µm/m-°C	19.4 µin/in-°F	Below Tg
	128 µm/m-°C	71.1 µin/in-°F	Above Tg
Maximum Service Temperature, Air	200 °C	392 °F	Continuous
	300 °C	572 °F	Intermittent
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	Continuous
	-55.0 °C	-67.0 °F	Intermittent
Glass Transition Temp, Tg	80.0 °C	176 °F	
Decomposition Temperature	370 °C	698 °F	Degradation Temperature

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	$\geq 5.00 \times 10^{11}$ ohm-cm Metric	$\geq 5.00 \times 10^{11}$ ohm-cm English	Comments
Dielectric Constant	4.32	4.32	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.114	0.114	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	30.0 min	0.500 hour	minimum
	@Temperature 75.0 °C	@Temperature 167 °F	
Pot Life	20160 min	20160 min	
Shelf Life	12.0 Month	12.0 Month	refrigerated

Descriptive Properties	Value	Comments
Color	Tan	before cure
Consistency	Smooth thixotropic paste	
Number of Components	Single	
Weight Loss	1.13%	200°C
	2.76%	250°C
	5.75%	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