

Lord Adhesives Thermoset,ç MD-140 Conductive Adhesive

Category : Polymer , Adhesive

Material Notes:

LORD Thermoset,ç MD-140 silver-filled conductive adhesive offers excellent thermal conductivity. It is designed for use in thermally demanding die attach applications such as microprocessor, power semiconductor and VLSI assembly. Thermoset MD-140 adhesive is low stress, making it suitable for use with large die. Thermoset MD-140 adhesive provides excellent adhesion to a wide variety of surfaces including silicon, silver, gold and copper. Low ionic levels make it ideally suited for demanding semiconductor and hybrid assembly applications. All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-Thermoset-MD-140-Conductive-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.80 g/cc	3.80 g/cc	
Viscosity	30000 cP	30000 cP	
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	3.30 GPa	479 ksi	Storage
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	
Shear Strength	48.3 MPa	7000 psi	Die
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 Åµm/m-Å°C	33.3 Åµin/in-Å°F	Alpha 1
	190 Åµm/m-Å°C	106 Åµin/in-Å°F	Alpha 2
Thermal Conductivity	12.0 W/m-K	83.3 BTU-in/hr-ftÅ²-Å°F	Laser Flash Method
Glass Transition Temp, Tg	82.0 Å°C	180 Å°F	TMA

Component Elements Properties	Metric	English	Comments
Potassium, K	<= 0.00010 %	<= 0.00010 %	
Sodium, Na	<= 0.00050 %	<= 0.00050 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.000090 ohm-cm	0.000090 ohm-cm	
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	

Processing Properties	Metric	English	Comments
Cure Time	1.00 - 3.00 min	0.0167 - 0.0500 hour	
	@Temperature 180 Â°C	@Temperature 356 Â°F	
	3.00 - 5.00 min	0.0500 - 0.0833 hour	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	5.00 - 10.0 min	0.0833 - 0.167 hour	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	

Descriptive Properties	Value	Comments
Appearance	Silver	
Chloride (%)	< 0.005	
Consistency	Paste	

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