

Lord Adhesives CircuitSAFâ„ç MA-420 Epoxy Surface Mount Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

CircuitSAFâ„ç MA-420 is an epoxy surface mount adhesive that cures rapidly at elevated temperatures and has been designed for use in high speed printed circuit board assembly for the attachment of surface mount components. This product is unique in that it can be used for both high speed dispensing and rapid printing without sacrificing any performance in either application. The high shear thinning and excellent viscosity recovery makes the material an excellent choice for high speed SMT applications. CircuitSAFâ„ç MA-420 has been successfully used in high speed placement systems with integrated dispense heads. A list of equipment and the corresponding packaging can be found in the CircuitSAFâ„ç MA-420 Brochure. CircuitSAFâ„ç MA-420 also shows superior performance in non-contact dispense systems such as the Asymtek Dispense JetTM. The superior dot profile and high dot aspect ratio make it ideal for rapid printing. CircuitSAFâ„ç MA-420 is fully compatible with the DEK ProFlow DirEkt ImagingTM system and is available in DEK ProFlowTM Cassettes. All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-CircuitSAF-MA-420-Epoxy-Surface-Mount-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	
Particle Size	<= 50 Åµm	<= 50 Åµm	mean particle size, 5 microns
Brookfield Viscosity	100000 cP	100000 cP	2HB CP52 Spindle @ 4.6rpm
	2.10e+6 cP	2.10e+6 cP	2HB CP52 Spindle @ 0.1rpm

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	2.29 GPa	332 ksi	DMTA @ 1kHz
Shear Strength	>= 13.8 MPa	>= 2000 psi	IPC817, 5 min 125Å°C cure

Thermal Properties	Metric	English	Comments
CTE, linear	45.0 Åµm/m-Å°C	25.0 Åµin/in-Å°F	Alpha 1
	140 Åµm/m-Å°C	77.8 Åµin/in-Å°F	Alpha 2
Thermal Conductivity	0.280 W/m-K	1.94 BTU-in/hr-ftÅ²-Å°F	
Glass Transition Temp, Tg	70.0 Å°C	158 Å°F	
Flash Point	>= 93.0 Å°C	>= 199 Å°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity			

Electrical Properties	9.00e+15 ohm-cm Metric	9.00e+15 ohm-cm English	Comments
Insulation Resistance	>= 1.00e+9 ohm	>= 1.00e+9 ohm	After 4 days
	>= 1.00e+9 ohm	>= 1.00e+9 ohm	After 7 days
Dielectric Constant	3.73	3.73	ASTM D150-95
	@Frequency 1.00e+9 Hz	@Frequency 1.00e+9 Hz	
	3.74	3.74	ASTM D2520-95
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.8	3.8	ASTM D2520-95
@Frequency 10000 Hz	@Frequency 10000 Hz		
3.9	3.9	ASTM D2520-95	
@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz		
Dielectric Strength	4.56	4.56	ASTM D150-95
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	54.29 kV/mm	1379 kV/in	ASTM D149-97a
	0.0083	0.0083	ASTM D2520-95
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0137	0.0137	ASTM D2520-95
	@Frequency 10000 Hz	@Frequency 10000 Hz	
	0.0168	0.0168	ASTM D150-95
	@Frequency 1.00e+9 Hz	@Frequency 1.00e+9 Hz	
0.031	0.031	ASTM D150-95	
@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz		
0.0415	0.0415	ASTM D2520-95	
@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz		

Processing Properties	Metric	English	Comments
Cure Time	1.00 - 1.50 min	0.0167 - 0.0250 hour	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	3.00 min	0.0500 hour	

Processing Properties	Metric	English	Comments
	@ Temperature 120 Â°C	@ Temperature 248 Â°F	
Shelf Life	9.00 Month	9.00 Month	
	@ Temperature 0.000 - 25.0 Â°C	@ Temperature 32.0 - 77.0 Â°F	

Descriptive Properties	Value	Comments
Appearance	Red or Yellow	
Electromigration	Passed	Bellcore GR-78
Thixotropic Index	12.1	ASTM D2196 (1 and 10rpm)
Torque Strength (N-mm)	68	on 1206 devices

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