

Lord Adhesives CircuitSAFâ„ç ME-456 Epoxy Dam Encapsulant

Category : Polymer , Thermoset , Epoxy , Epoxy Encapsulant, Unreinforced

Material Notes:

CircuitSAFâ„ç ME-456 is a one component, high purity, fast cure, semiconductor grade epoxy encapsulant dam material developed for use in the encapsulation of wire bonded and flip devices where a dam is needed to restrict the flow of a cavity fill encapsulant. It has a high viscosity with a high thixotropic index that can be dispensed around the perimeter of the area to be encapsulated. Once CircuitSAFâ„ç ME-456 has been dispensed, the area inside the dam can be encapsulated with Lord's Cavity Fill Encapsulant, CircuitSAFâ„ç ME-455, and both materials can be cured at the same time. All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-CircuitSAF-ME-456-Epoxy-Dam-Encapsulant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 g/cc	1.80 g/cc	
Water Absorption	0.60 %	0.60 %	
	@Temperature 100 Â°C, Time 86400 sec	@Temperature 212 Â°F, Time 24.0 hour	
Brookfield Viscosity	1.10e+6 cP	1.10e+6 cP	Spindle #7 @ 1rpm
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	6.00 GPa	870 ksi	DMA

Thermal Properties	Metric	English	Comments
CTE, linear	19.0 Âµm/m-Â°C	10.6 Âµin/in-Â°F	Alpha 1; ASTM D3386
	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	Alpha 2; ASTM D3386
Glass Transition Temp, Tg	135 Â°C	275 Â°F	DSC; ASTM D3418

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

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.6	3.6	ASTM D150-98
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Electrical Properties	Metric	English	Comments
Dissipation Factor	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	ASTM D150-98

Processing Properties	Metric	English	Comments
Cure Time	30.0 min @Temperature 150 Å°C	0.500 hour @Temperature 302 Å°F	
Pot Life	2160 min @Temperature 25.0 Å°C	2160 min @Temperature 77.0 Å°F	
Gel Time	4.00 min @Temperature 150 Å°C	4.00 min @Temperature 302 Å°F	
Shelf Life	6.00 Month @Temperature -40.0 Å°C	6.00 Month @Temperature -40.0 Å°F	

Descriptive Properties	Value	Comments
Chloride (%)	< 0.0005	
Thixotropic Index	4.7	

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