

Lord Adhesives Thermosetâ„ç ME-430 Epoxy Board Level Encapsulant

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

Material Notes:

LORD Thermosetâ„ç ME-430 encapsulant is a onecomponent, semiconductor grade epoxy designed for the encapsulation of Chip-on-Board (COB) devices. It is composed of 100% solids and formulated with high purity resins, fillers and additives to provide the ionic purity levels required for use in high-end microelectronic applications. Thermoset ME-430 encapsulant offers good adhesion to both laminate and ceramic substrates, and can be used in demanding high-end, consumer printed circuit board and semiconductor applications. All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-Thermoset-ME-430-Epoxy-Board-Level-Encapsulant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 g/cc	1.80 g/cc	
Brookfield Viscosity	255000 - 380000 cP @Temperature 25.0 Â°C	255000 - 380000 cP @Temperature 77.0 Â°F	Spindle 14 @ 1rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	91 - 98	91 - 98	
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	Below Tg; TMA
Glass Transition Temp, Tg	135 Â°C	275 Â°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	1.00e+15 ohm-cm @Temperature 25.0 Â°C	1.00e+15 ohm-cm @Temperature 77.0 Â°F	
Dielectric Constant	3.7 @Frequency 1.00e+6 Hz	3.7 @Frequency 1.00e+6 Hz	

Electrical Properties	Metric	English	Comments
Dissipation Factor	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Processing Properties	Metric	English	Comments
Cure Time	30.0 min @Temperature 150 Å°C	0.500 hour @Temperature 302 Å°F	
Pot Life	1440 min @Temperature 25.0 Å°C	1440 min @Temperature 77.0 Å°F	
Gel Time	3.50 - 5.80 min @Temperature 150 Å°C	3.50 - 5.80 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
Appearance	Black	
Chloride (%)	0.0005	
Consistency	Paste	

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