

Lord Adhesives Thermoset ME-531 Underfill Encapsulant

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

Material Notes:

LORD Thermoset ME-531 encapsulant is a high purity, semiconductor grade epoxy underfill product developed for the encapsulation of flip chip devices. It is formulated to reduce warpage and with the necessary structural strength to handle over-molding processes. Thermoset ME-531 encapsulant is engineered to withstand 260°C peak reflow temperatures of lead-free solders. All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-Thermoset-ME-531-Underfill-Encapsulant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.71 g/cc	1.71 g/cc	
Water Absorption	<= 0.50 %	<= 0.50 %	
Brookfield Viscosity	4000 cP @Temperature 25.0 °C	4000 cP @Temperature 77.0 °F	Spindle CP40 @ 5rpm

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	6.00 GPa	870 ksi	Storage
Shear Strength	62.0 MPa	8990 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	21.0 µm/m-°C	11.7 µin/in-°F	Alpha 1
	85.0 µm/m-°C	47.2 µin/in-°F	Alpha 2
Glass Transition Temp, Tg	140 °C	284 °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 °C	1.00e+15 ohm-cm @Temperature 77.0 °F	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	
	@Temperature 165 Â°C	@Temperature 329 Â°F	
	30.0 min	0.500 hour	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Pot Life	960 min	960 min	
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	
Gel Time	6.00 min	6.00 min	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	

Descriptive Properties	Value	Comments
Appearance	Black	
Chloride (%)	< 0.001	
Consistency	Low-Viscosity Liquid	

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