

Lord Adhesives Thermoset,ç ME-525 Underfill Encapsulant

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

Material Notes:

LORD Thermoset,ç ME-525 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. All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-Thermoset-ME-525-Underfill-Encapsulant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 g/cc	1.70 g/cc	
Water Absorption	<= 0.50 %	<= 0.50 %	
Brookfield Viscosity	6000 cP @Temperature 25.0 Â°C	6000 cP @Temperature 77.0 Â°F	Spindle CP40 @ 5rpm

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	4.00 GPa	580 ksi	Storage
Shear Strength	64.98 MPa	9425 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	23.0 Âµm/m-Â°C	12.8 Âµin/in-Â°F	Alpha 1
	85.0 Âµm/m-Â°C	47.2 Âµin/in-Â°F	Alpha 2
Glass Transition Temp, Tg	120 Â°C	248 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	

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Cure Time	@Temperature 165 Â°C	@Temperature 329 Â°F	
	30.0 min	0.500 hour	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Pot Life	2160 min	2160 min	
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	
Gel Time	5.00 min	5.00 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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