

Lord Adhesives Thermoset,ç EP-809 Ignition Coil Impregnating and Encapsulation Epoxy

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

Material Notes:

Lord EP-809 is a long working life, heat curing, two component epoxy formulation. It was designed especially for potting high voltage automotive ignition coils. The combination of low viscosity, excellent high temperature electrical properties and good thermal shock resistance makes EP-809 ideal for this application. All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-Thermoset-EP-809-Ignition-Coil-Impregnating-and-Encapsulation-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.53 g/cc	1.53 g/cc	STM 2
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	
Water Absorption	<= 0.50 %	<= 0.50 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Loss On Ignition	<= 0.50 %	<= 0.50 %	
	@Temperature 150 Å°C, Time 605000 sec	@Temperature 302 Å°F, Time 168 hour	
Viscosity	100 cP	100 cP	Hardener
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	
	2800 cP	2800 cP	Mixed
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	
	40000 cP	40000 cP	Resin
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	92	92	
Tensile Strength, Yield	79.3 MPa	11500 psi	ASTM D638
Elongation at Yield	3.0 %	3.0 %	ASTM D638

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 Åµm/m-Å°C	16.7 Åµin/in-Å°F	ASTM D696

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	95.0 Å°C	203 Å°F	Mettler DSC

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.09	3.09	ASTM D150
Dielectric Strength	19.7 kV/mm	500 kV/in	ASTM D1490
Dissipation Factor	0.016	0.016	ASTM D150

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	plus 2 hours @ 115-125Å°C
	@Temperature 90.0 - 98.0 Å°C	@Temperature 194 - 208 Å°F	
	240 min	4.00 hour	plus 2 hours @ 115-125Å°C, plus 2 hours @ 145-155Å°C
	@Temperature 80.0 - 85.0 Å°C	@Temperature 176 - 185 Å°F	
	720 - 960 min	12.0 - 16.0 hour	
	@Temperature 80.0 - 90.0 Å°C	@Temperature 176 - 194 Å°F	
Pot Life	1440 - 2880 min	1440 - 2880 min	
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	

Descriptive Properties	Value	Comments
Appearance	Gray	
Mix Ratio	100:32	by weight
	100:44	by volume
Weight per Gallon (lbs)	10.1	Hardener; STM 2
	13.9	Resin; STM 2

Descriptive Properties	Value	Comments
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