

Lord Adhesives Thermoset,ç EP-830 Ignition Coil Impregnating and Encapsulation Epoxy

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

Material Notes:

Lord EP-830 is a heat curing, two component epoxy formulation designed especially for use in automotive high voltage ignition coils where adhesion to segmented bobbins is critical. The combination of low viscosity, excellent high temperature electrical performance and good thermal shock resistance make this epoxy compound 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-830-Ignition-Coil-Impregnating-and-Encapsulation-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.65 g/cc	1.65 g/cc	STM 2
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	
Water Absorption	0.18 %	0.18 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Loss On Ignition	0.28 %	0.28 %	
	@Temperature 155 Å°C, Time 605000 sec	@Temperature 311 Å°F, Time 168 hour	
Viscosity	170 cP	170 cP	STM 1
	@Temperature 75.0 Å°C	@Temperature 167 Å°F	
	4000 cP	4000 cP	STM 1
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	97	97	STM 5, ASTM D2240
Tensile Strength, Yield	85.116 MPa	12345 psi	ASTM D638
Elongation at Yield	2.5 %	2.5 %	ASTM D638
Izod Impact, Notched	0.187 J/cm	0.350 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 Åµm/m-Å°C	13.9 Åµin/in-Å°F	ASTM D696
Maximum Service Temperature, Air	180 Å°C	356 Å°F	

Glass Transition Temp, Tg Thermal Properties	175 Â°C Metric	347 Â°F English	Mettler DSC-30, ASTM D3418 Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	3.80e+12 ohm-cm	3.80e+12 ohm-cm	ASTM D257
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	2.50e+15 ohm-cm	2.50e+15 ohm-cm	ASTM D257
@Temperature 90.0 Â°C	@Temperature 194 Â°F		
Dielectric Constant	5.80e+15 ohm-cm	5.80e+15 ohm-cm	ASTM D257
	@Temperature 30.0 Â°C	@Temperature 86.0 Â°F	
	3.62	3.62	ASTM D150
@Frequency 1.00e+6 Hz, Temperature 30.0 Â°C	@Frequency 1.00e+6 Hz, Temperature 86.0 Â°F		
3.67	3.67	ASTM D150	
@Frequency 1.00e+6 Hz, Temperature 90.0 Â°C	@Frequency 1.00e+6 Hz, Temperature 194 Â°F		
Dielectric Strength	3.69	3.69	ASTM D150
	@Frequency 1.00e+6 Hz, Temperature 150 Â°C	@Frequency 1.00e+6 Hz, Temperature 302 Â°F	
	48.23 kV/mm	1225 kV/in	ASTM D149
@Thickness 0.650 mm	@Thickness 0.0256 in		
Dissipation Factor	0.0030	0.0030	ASTM D150
	@Frequency 1.00e+6 Hz, Temperature 30.0 Â°C	@Frequency 1.00e+6 Hz, Temperature 86.0 Â°F	
	0.0030	0.0030	ASTM D150
@Frequency 1.00e+6 Hz, Temperature 90.0 Â°C	@Frequency 1.00e+6 Hz, Temperature 194 Â°F		
Processing Properties	0.0060	0.0060	ASTM D150
	@Frequency 1.00e+6 Hz, Temperature 150 Â°C	@Frequency 1.00e+6 Hz, Temperature 302 Â°F	
Processing Properties	Metric	English	Comments
	180 min	3.00 hour	

Cure Time Processing Properties	Metric @ Temperature 100 °C	English @ Temperature 212 °F	plus 2 hours @ 150°C Comments
Pot Life	1440 - 2880 min @Temperature 25.0 °C	1440 - 2880 min @Temperature 77.0 °F	
Shelf Life	6.00 Month @Temperature 25.0 °C	6.00 Month @Temperature 77.0 °F	Resin
	12.0 Month @Temperature 25.0 °C	12.0 Month @Temperature 77.0 °F	Hardener

Descriptive Properties	Value	Comments
Appearance	Tan	
Mix Ratio	100:28	by weight
	100:46	by volume

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