

Lord Adhesives Thermoset,ç UR-322 Two Component Urethane Potting Compound

Category : Polymer , Adhesive , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Adhesive

Material Notes:

Lord UR-322 is a two component, room temperature curing urethane potting compound. The cured elastomer is soft, flexible and has a very low modulus at temperatures down to -80Â°C. Cured UR-322 also has excellent thermal shock resistance, electrical properties and adhesion to a variety of materials. The hydrophobic nature of this resin system imparts exceptional hydrolytic stability to the cured resin. All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-Thermoset-UR-322-Two-Component-Urethane-Potting-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.950 g/cc	0.950 g/cc	STM 2
Water Absorption	0.30 % @Temperature 25.0 Â°C, Time 605000 sec	0.30 % @Temperature 77.0 Â°F, Time 168 hour	ASTM D570
Loss On Ignition	0.050 % @Temperature 100 Â°C, Time 86400 sec	0.050 % @Temperature 212 Â°F, Time 24.0 hour	
Viscosity	750 cP @Temperature 25.0 Â°C	750 cP @Temperature 77.0 Â°F	Mixed; STM 1

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	12	12	ASTM D2240
Tensile Strength, Yield	0.689 MPa	100 psi	ASTM D638
Elongation at Yield	>= 250 %	>= 250 %	ASTM D638

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 Â°C	266 Â°F	
Glass Transition Temp, Tg	-72.0 Â°C	-97.6 Â°F	ASTM D3418

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+13 ohm-cm @Temperature 130 Â°C	5.00e+13 ohm-cm @Temperature 266 Â°F	ASTM D257

Electrical Properties	Metric	English	Comments
	4.00e+14 ohm-cm	4.00e+14 ohm-cm	ASTM D257
	@Temperature 105 Â°C	@Temperature 221 Â°F	
	2.00e+16 ohm-cm	2.00e+16 ohm-cm	ASTM D257
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	
Dielectric Constant	3.1	3.1	ASTM D150
	@Frequency 1.00e+6 Hz, Temperature 25.0 Â°C	@Frequency 1.00e+6 Hz, Temperature 77.0 Â°F	
Dissipation Factor	0.20	0.20	ASTM D150
	@Frequency 1.00e+6 Hz, Temperature 25.0 Â°C	@Frequency 1.00e+6 Hz, Temperature 77.0 Â°F	

Processing Properties	Metric	English	Comments
Cure Time	30.0 min	0.500 hour	Initial
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	
	5760 min	96.0 hour	Full
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	
Pot Life	4.0 - 5.0 min	4.0 - 5.0 min	
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 25.0 Â°C	@Temperature 77.0 Â°F	

Descriptive Properties	Value	Comments
Appearance	Clear	
Mix Ratio	1:1	by volume
	100:107	by weight
Thermal Shock	Excellent	

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