

Resinlab® UR3001 Clear Two Part Urethane Encapsulant

Category : Polymer , Adhesive , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Adhesive , Thermoset Polyurethane, Elastomer, Unreinforced , Rubber or Thermoset Elastomer (TSE)

Material Notes:

Resinlab™ UR 3001 is a clear, two component, room temperature curing urethane encapsulating system. It is designed to cure completely at room temperature. UR 3001 provides excellent environmental protection while having tenacious adhesion to various metals, plastics and other common assembly materials. UR 3001 is an unfilled system that has a gel-like durometer and good flexibility at temperatures as low as -40°C. It provides excellent moisture resistance and can withstand 125°C continuous operation. UR 3001 has a convenient mixing ratio of 2 to 1 by volume. It is well suited to automated meter mix operations. UR 3001 is a DOT non-hazardous material and contains no TDI, MOCA, or other reportable substances. Part B is moisture sensitive and must be kept away from atmospheric moisture during storage. After opening a sealed container, thoroughly purge the remaining air space with dry nitrogen (or equivalent) before closing the container. Information Provided by Resinlab L.L.C., an Ellsworth Adhesives Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Resinlab-UR3001-Clear-Two-Part-Urethane-Encapsulant.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.910 g/cc	0.910 g/cc	Part A
	0.940 g/cc	0.940 g/cc	Mixed
	0.990 g/cc	0.990 g/cc	Part B
Viscosity	75 cP	75 cP	Part B
	1500 cP	1500 cP	Mixed
	3750 cP	3750 cP	Part A

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	0.345 MPa	50.0 psi	
Elongation at Break	>= 135 %	>= 135 %	

Thermal Properties	Metric	English	Comments
CTE, linear	150 µm/m-°C	83.3 µin/in-°F	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	clear; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 100 Hz, Temperature 25.0 °C	@Frequency 100 Hz, Temperature 77.0 °F	
Dielectric Strength	15.0 kV/mm	380 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	
	@Temperature 85.0 °C	@Temperature 185 °F	
Pot Life	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	10 min	10 min	Mass: 50g

Descriptive Properties	Value	Comments
Color	Clear	
Mix Ratio	2:1	Weight and Volume

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