

Resinlab® UR3010 Black Polyurethane Potting System

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

Material Notes:

Resinlab™ UR 3010 Black is a, two component, room temperature curing polyurethane potting system. It is designed to cure completely at room temperature. UR 3010 provides excellent environmental protection giving very good resistance to water, salt spray, inorganic acids and bases, and most organic solvents, while maintaining tenacious adhesion to various metals, plastics and other common assembly materials. UR 3010 Black is an unfilled system that has a high degree of flexibility at temperatures as low as -40C. It provides excellent moisture resistance and can withstand 125°C continuous operation. Excursions to 150C for < 24 hours have no detectable effect on hardness or produces measureable weight loss. It also has a low viscosity, which facilitates flow and penetration into difficult areas. This product was formulated to a convenient mixing ratio of 1 to 1 by volume. It is well suited to automated meter mix operations. UR 3010 Black 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-UR3010-Black-Polyurethane-Potting-System.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.970 g/cc	0.970 g/cc	Part A
	1.04 g/cc	1.04 g/cc	Mixed
	1.10 g/cc	1.10 g/cc	Part B
Viscosity	275 cP	275 cP	Part B
	615 cP	615 cP	Mixed
	1000 cP	1000 cP	Part A

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	
Tensile Strength, Yield	0.552 MPa	80.0 psi	
	1.72 MPa	250 psi	at 100%
Elongation at Break	60 %	60 %	

Thermal Properties	Metric	English	Comments
CTE, linear	200 µm/m-°C	111 µin/in-°F	

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	3.00e+15 ohm-cm Metric	3.00e+15 ohm-cm English	Comments
Dielectric Constant	3.96	3.96	
	@Frequency 100 Hz, Temperature 25.0 °C	@Frequency 100 Hz, Temperature 77.0 °F	
Dielectric Strength	19.7 kV/mm	500 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	
	@Temperature 85.0 °C	@Temperature 185 °F	
	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	30 - 45 min	30 - 45 min	Mass: 100g

Descriptive Properties	Value	Comments
Color	Black	
Fungus Resistance	Excellent	
Mix Ratio	1:1	Volume
	88:100	Weight

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