

## Resinlab® UR3005 Two Part Urethane Elastomer

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

### Material Notes:

Resinlab™ UR 3005 is a two component, room temperature curing polybutadiene polyurethane casting and potting system. It is designed to cure completely at room temperature. UR 3005 provides excellent environmental protection while having tenacious adhesion to various metals, plastics and other common assembly materials. UR 3005 is an unfilled system that has a high degree of flexibility at temperatures as low as -40C and provides for low stress on sensitive SMT components. It provides excellent moisture resistance and can withstand 125°C continuous operation. It also has a low viscosity, which facilitates flow and penetration into difficult areas. It is well suited to automated meter mix operations. UR 3005 is a DOT non-hazardous material and contains no TDI, MOCA, or other reportable substances. Both components are moderately 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 inert gas such as 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-UR3005-Two-Part-Urethane-Elastomer.php](http://www.lookpolymers.com/polymer_Resinlab-UR3005-Two-Part-Urethane-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.940 g/cc	0.940 g/cc	Part B
	0.960 g/cc	0.960 g/cc	Mixed
	1.11 g/cc	1.11 g/cc	Part A
Viscosity	200 cP	200 cP	Part A (Isocyanate)
	4000 cP	4000 cP	Mixed
	7000 cP	7000 cP	Part B (Polyol)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	75	75	
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tensile Strength, Yield	1.03 MPa	150 psi	
Elongation at Break	150 %	150 %	

Thermal Properties	Metric	English	Comments
CTE, linear	120 µm/m-°C	66.7 µin/in-°F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	125 °C	257 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.00e+12 ohm-cm	8.00e+12 ohm-cm	
Dielectric Constant	3.2	3.2	
	@Frequency 100 Hz, Temperature 25.0 °C	@Frequency 100 Hz, Temperature 77.0 °F	
Dielectric Strength	17.3 kV/mm	440 kV/in	

Processing Properties	Metric	English	Comments
Pot Life	10 - 20 min	10 - 20 min	Mass: 100g

Descriptive Properties	Value	Comments
Color	Black	
Demold Time (hours)	4-8	
Mix Ratio	1:6	Volume
	100:510	Weight

## Contact Songhan Plastic Technology Co.,Ltd.

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