Northstar Polymers MPP-V37A Polyurethane Gel Elastomer

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Liquid

Material Notes:

This two-component polyurethane casting system makes type of soft elastomer material known as "gel". Applications for this material include filling component for computer keyboard/mouse-pad wrist rests, bicycle/motor cycle sheeting, surgical bed cushions, respirator gaskets, vibration dampening, and many other specialty applications. The component materials are liquid at room temperature. The mixture cures at room temperature. The material can be cast into molds to make parts, inserted into a film encapsulation, or open cast into a frame to make a sheet. The standard pot life is 15 minutes, so it is possible to hand-batch for prototyping, small run production, and a large batch.Information provided by Northstar Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Northstar-Polymers-MPP-V37A-Polyurethane-Gel-Elastomer.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	37	37	ASTM D2240
Tensile Strength	0.586 MPa	85.0 psi	ASTM D412
Elongation at Break	530 %	530 %	ASTM D412
100% Modulus	0.000165 GPa	0.0240 ksi	ASTM D412
300% Modulus	0.000310 GPa	0.0450 ksi	ASTM D412
Rebound	<= 5.0 %	<= 5.0 %	Bashore Rebound; ASTM D2632
Tear Strength	1.31 kN/m	7.50 pli	Split; ASTM D624
	3.16 kN/m	18.0 pli	Die C; ASTM D624

Processing Properties	Metric	English	Comments
Processing Temperature	25.0 °C	77.0 °F	Curing Agent Temperature
	82.2 °C	180 °F	Prepolymer Temperature
Mold Temperature	82.2 °C	180 °F	
Pot Life	8.00 min	8.00 min	
Gel Time	15.0 min	15.0 min	

Descriptive Properties	Value	Comments
Curing Agent	PNA-157	
Prepolymer	MPA-135	

Descriptive Properties	Value	Comments
Weight Ratio	1:2.225	Prepolymer to Curing Agent Ratio

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