

Northstar Polymers MPP-A90A High Performance Polyether

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

Material Notes:

This high performance polyether system is one of a family of polymer systems developed by Northstar Polymers for specific demanding work environments. Urethane elastomers molded with this system exhibit fine resolution of mold details, excellent performance in wet environments and good resistance to ultraviolet light. This combination of features makes elastomers molded from MPP-A90A perfect for applications including patterns designed to transfer an image to wet surfaces including concrete and many custom applications. Information provided by Northstar Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Northstar-Polymers-MPP-A90A-High-Performance-Polyether.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	ASTM D2240
Tensile Strength	12.4 MPa	1800 psi	ASTM D412
Elongation at Break	350 %	350 %	ASTM D412
100% Modulus	0.00552 GPa	0.800 ksi	ASTM D412
300% Modulus	0.0110 GPa	1.59 ksi	ASTM D412
Tear Strength	15.8 kN/m	90.0 pli	Split; ASTM D624
	43.8 kN/m	250 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	140	140	ASTM D4060

Processing Properties	Metric	English	Comments
Processing Temperature	21.1 - 32.2 °C	70.0 - 90.0 °F	Prepolymer Temperature
	21.1 - 32.2 °C	70.0 - 90.0 °F	Curing Agent Temperature
Mold Temperature	21.1 - 32.2 °C	70.0 - 90.0 °F	
Cure Time	120 - 180 min	2.00 - 3.00 hour	De-mold Time
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1440 min	24.0 hour	Complete Cure Cycle
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	8.00 - 10.0 min	8.00 - 10.0 min	

Descriptive Properties	Value	Comments
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Curing Agent

Descriptive Properties	PPA-019 Value	Comments
Prepolymer	MPN-023	
Weight Ratio	1:0.878	Prepolymer to Curing Agent Ratio

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