

Northstar Polymers MGB-A90A High Performance Polyurethane Cast Elastomer System 90A

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

Material Notes:

This is a PTMEG/MDI base high-performance polyurethane casting system. This system is recommended to applications in which the part requires high rebound, slide abrasion, constant water contact and high elongation. Possible application for this material includes roller skate wheels, bumpers, abrasion resistant liners, rock/sand sizing screens and other specialty applications. This is a conventional "full-prepolymer" type material cured with 1,4 BDO. Can be approved for FDA dry food contact. Information provided by Northstar Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Northstar-Polymers-MGB-A90A-High-Performance-Polyurethane-Cast-Elastomer-System-90A.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	ASTM D2240
Tensile Strength	24.9 MPa	3610 psi	ASTM D412
Elongation at Break	840 %	840 %	ASTM D412
100% Modulus	0.0101 GPa	1.46 ksi	ASTM D412
Rebound	62 %	62 %	Bashore Rebound; ASTM D2632
Tear Strength	23.5 kN/m	134 pli	Split; ASTM D624
	98.2 kN/m	560 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	35	35	ASTM D4060

Processing Properties	Metric	English	Comments
Processing Temperature	25.0 °C	77.0 °F	Curing Agent Temperature
	82.2 - 93.3 °C	180 - 200 °F	Prepolymer Temperature
Mold Temperature	82.2 - 93.3 °C	180 - 200 °F	
Cure Time	30.0 min	0.500 hour	De-mold Time
	@Temperature 93.3 °C	@Temperature 200 °F	
	960 min	16.0 hour	Complete Cure Cycle
	@Temperature 82.2 °C	@Temperature 180 °F	
Pot Life	2.50 - 3.00 min	2.50 - 3.00 min	

Descriptive Properties	Value	Comments
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Curing Agent

Descriptive Properties	BNA-005 Value	Comments
Prepolymer	MGA-048	
Weight Ratio	1:0.089	Prepolymer to Curing Agent Ratio

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