

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

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

Material Notes:

This is a Ester/MDI base high-performance polyurethane casting system. This systems is recommended to applications in which the part requires high tensile strength, cut/tear resistance, dry-abrasion resistance, slow response speed, and low energy rebound/response. Ester base systems are generally less expensive than PTMEG base material. Possible applications for this material include skirting for conveyer belts, abrasion resistance liners and parts, and other specialty parts. 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-MSS-A90A-High-Performance-Polyurethane-Cast-Elastomer-System-90A.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	ASTM D2240
Tensile Strength	29.0 MPa	4200 psi	ASTM D412
Elongation at Break	650 %	650 %	ASTM D412
Rebound	28 %	28 %	Bashore Rebound; ASTM D2632
Tear Strength	52.6 kN/m	300 pli	Split; ASTM D624
	105 kN/m	600 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	62	62	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
Curing Agent	BNA-005	

Descriptive Properties	Value	Comments
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