

Northstar Polymers MGP-D50A High Performance Polyurethane Cast Elastomer System 50D

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 some load-bearing, slide abrasion, constant water contact and high elongation with high energy properties. Possible applications for this material include roller skate wheels, bumpers, abrasion resistant liners and parts, 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-MGP-D50A-High-Performance-Polyurethane-Cast-Elastomer-System-50D.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	ASTM D2240
Tensile Strength	28.3 MPa	4100 psi	ASTM D412
Elongation at Break	250 %	250 %	ASTM D412
100% Modulus	0.0138 GPa	2.00 ksi	ASTM D412
Rebound	30 %	30 %	Bashore Rebound; ASTM D2632
Tear Strength	39.4 kN/m	225 pli	Split; ASTM D624
	107 kN/m	610 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	90	90	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	
Prepolymer	MGA-036	
Weight Ratio	1:0.119	Prepolymer to Curing Agent Ratio

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