

Northstar Polymers MGB-A80AQ High Performance Polyurethane Cast Elastomer System 80A

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 applications for this material include roller skate wheels, bumpers, abrasion resistant liners, rock/sand sizing screens and other specialty applications. Unlike conventional full-prepolymer systems, quasi system formulation improves processability, in-mold flow, and components mixing by use of low viscosity prepolymer. This results better physical properties of the products. 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-A80AQ-High-Performance-Polyurethane-Cast-Elastomer-System-80A.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ASTM D2240
Tensile Strength	25.67 MPa	3723 psi	ASTM D412
Elongation at Break	554 %	554 %	ASTM D412
Rebound	63 %	63 %	Bashore Rebound; ASTM D2632
Tear Strength	22.8 kN/m	130 pli	Split; ASTM D624
	71.9 kN/m	410 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	20	20	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	GBA-042	
Prepolymer	MGA-018	
Weight Ratio	1:2.232	Prepolymer to Curing Agent Ratio

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