

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

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. 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-MSS-A80AQ-High-Performance-Polyurethane-Cast-Elastomer-System-80A.php](http://www.lookpolymers.com/polymer_Northstar-Polymers-MSS-A80AQ-High-Performance-Polyurethane-Cast-Elastomer-System-80A.php)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ASTM D2240
Tensile Strength	41.4 MPa	6000 psi	ASTM D412
Elongation at Break	900 %	900 %	ASTM D412
Tear Strength	61.4 kN/m	350 pli	Split; ASTM D624
	105 kN/m	600 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	15	15	ASTM D4060

Processing Properties	Metric	English	Comments
Processing Temperature	21.1 °C	70.0 °F	Prepolymer Temperature
	82.2 °C	180 °F	Curing Agent Temperature
Mold Temperature	82.2 °C	180 °F	
Cure Time	30.0 min	0.500 hour	De-mold Time
	@Temperature 82.2 °C	@Temperature 180 °F	
	960 - 1440 min	16.0 - 24.0 hour	Complete Cure Cycle
	@Temperature 82.2 °C	@Temperature 180 °F	
Pot Life	2.50 - 3.00 min	2.50 - 3.00 min	
Gel Time	4.00 min	4.00 min	

Descriptive Properties	Value	Comments
Curing Agent	SBA-036	
Prepolymer	MSA-018	
Weight Ratio	1:1.978	Prepolymer to Curing Agent Ratio

## Contact Songhan Plastic Technology Co.,Ltd.

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