

## Northstar Polymers MSB-D60A High Performance Polyurethane Cast Elastomer System

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

### Material Notes:

This is an Ester/MDI base high-performance polyurethane casting system. This systems is recommended to applications in which the part requires some load bearing, high tensile strength, cut/tear resistance, dry-abrasion resistance, and low energy rebound/response. Ester base systems are generally less expensive than PTMEG base material. Possible applications for this material include buckets/flights for conveyers, 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-MSB-D60A-High-Performance-Polyurethane-Cast-Elastomer-System.php](http://www.lookpolymers.com/polymer_Northstar-Polymers-MSB-D60A-High-Performance-Polyurethane-Cast-Elastomer-System.php)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ASTM D2240
Tensile Strength	42.23 MPa	6125 psi	ASTM D412
Elongation at Break	300 %	300 %	ASTM D412
Rebound	40 %	40 %	Bashore Rebound; ASTM D2632
Tear Strength	80.8 kN/m	461 pli	Split; ASTM D624
	167 kN/m	950 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	85	85	ASTM D4060

Processing Properties	Metric	English	Comments
Processing Temperature	25.0 °C	77.0 °F	Curing Agent Temperature
	85.0 °C	185 °F	Prepolymer Temperature
Mold Temperature	100 °C	212 °F	
Cure Time	300 - 420 min	5.00 - 7.00 hour	De-mold Time
	@Temperature 100 °C	@Temperature 212 °F	
	480 min	8.00 hour	Complete Cure Cycle
	@Temperature 82.2 °C	@Temperature 180 °F	
Pot Life	0.750 min	0.750 min	
Gel Time	2.00 min	2.00 min	

Descriptive Properties	Value	Comments
Curing Agent	BNA-005	
Prepolymer	MSA-030	
Weight Ratio	1:0.143	Prepolymer to Curing Agent Ratio

## Contact Songhan Plastic Technology Co.,Ltd.

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