

Northstar Polymers MSB-M25F Microcellular Foam based on High Performance Polyester Polyurethane

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane Foam, Unreinforced

Material Notes:

This high performance polyester microcellular foam system is one of a family of polymer systems developed by Northstar Polymers for demanding work environments. Urethane foams molded with this system exhibit high tear strength, excellent oil resistance, and outstanding abrasion resistance. They also meet the requirements of 21 CFR 177.1680, FDA direct dry food contact. When the packing factor exceeds 1, an integral skin will develop with properties approaching those of the cast elastomer. For long-term use in constant aqueous environments, consider a polyether or hybrid product system. Information provided by Northstar Polymers.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Northstar-Polymers-MSB-M25F-Microcellular-Foam-based-on-High-Performance-Polyester-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	0.357 g/cc	0.0129 lb/in³	Free Rise Density
	0.400 g/cc	0.0145 lb/in³	Packing Density

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	25	25	ASTM D2240
Rebound	23 %	23 %	Bashore Rebound; ASTM D2632

Processing Properties	Metric	English	Comments
Processing Temperature	21.1 - 32.2 °C	70.0 - 90.0 °F	Prepolymer Temperature
	60.0 °C	140 °F	Curing Agent Temperature
Mold Temperature	43.3 °C	110 °F	
Cure Time	180 min	3.00 hour	De-mold Time
	@Temperature 43.3 °C	@Temperature 110 °F	
	480 min	8.00 hour	Complete Cure Cycle
	@Temperature 82.2 °C	@Temperature 180 °F	
	2880 min	48.0 hour	Complete Cure Cycle
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	1.00 min	1.00 min	

Descriptive Properties	Value	Comments
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<small>Curing Agent</small> Descriptive Properties	<small>SBA-041</small> Value	Comments
Mixing Time	20	minimum for mixing by hand
Prepolymer	MNA-014	
Weight Ratio	1:2.845	Prepolymer to Curing Agent Ratio

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