

Northstar Polymers MPS-F08A Hand-Mixable Flexible Foam

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

Material Notes:

This foam formulation is designed to make molded flexible foam parts/sheets/dies/blocks by hand-mixing or machine casting by the meter dispensing equipment. The components are stable and liquid at room temperature and ambient pressure. It requires minimum tooling for a small production or short runs. The mixing ratio is simple 1:2 by volume. These properties are ideal in small scale productions for custom foam applications such as custom seating, padding, and cushioning. Generally this medium density foam yields firmer foam comparing to lower density foams. For softer, less firm foam quality, a 6 pound-per-cubic foot formula MPS-F06B is recommended. Or for firmer grade, use firm-flexible foam FFM-1. The free-rise density of the foam is 7.5 pounds per cubic foot, and the cell structure is open-cell. This is an MDI base water-blown polyester/polyether hybrid system, and it does not use flammable or ozone-layer-depleting auxiliary blowing agents Examples for Applications: Molded Upholstery Parts Custom Seating, Padding, and Cushioning Parts Custom Packaging of Impact/Vibration-Sensitive Items Prototyping Information provided by Northstar Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Northstar-Polymers-MPS-F08A-Hand-Mixable-Flexible-Foam.php

Physical Properties	Metric	English	Comments
Density	0.120 g/cc	0.00434 lb/in ³	Free Rise Density
	0.128 g/cc	0.00463 lb/in ³	Typical Compression Density

Mechanical Properties	Metric	English	Comments
Hardness, Shore 00	25 - 35	25 - 35	
Tensile Strength	0.331 MPa	48.0 psi	
Elongation at Break	130 %	130 %	
Compressive Strength	0.0241 MPa	3.50 psi	
	@Strain 25.0 %	@Strain 25.0 %	
	0.0634 MPa	9.20 psi	
	@Strain 50.0 %	@Strain 50.0 %	
Rebound	30 %	30 %	Bashore Rebound
Tear Strength	0.596 kN/m	3.40 pli	Split Tear Resistance

Processing Properties	Metric	English	Comments
Processing Temperature	21.1 - 32.2 °C	70.0 - 90.0 °F	Prepolymer Temperature
	21.1 - 32.2 °C	70.0 - 90.0 °F	Curing Agent Temperature
Mold Temperature	37.8 - 54.4 °C	100 - 130 °F	



Processing Properties	Metric	English 0.550 - 0.670 hour	Comments
Cure Time			De-mold Time
	@Temperature 43.3 °C	@Temperature 110 °F	
	60.0 min	1.00 hour	Complete Cure Cycle
	@Temperature 82.2 °C	@Temperature 180 °F	
	1440 min	24.0 hour	Complete Cure Cycle
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	0.500 min	0.500 min	

Descriptive Properties	Value	Comments
Curing Agent	PPC-031	
Prepolymer	MSA-018	
Weight Ratio	1:1.7	Prepolymer to Curing Agent Ratio

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