

Northstar Polymers MPS-F04A 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 by the meter dispensing equipment. The components are stable liquid at room temperature and ambient pressure. It requires minimum tooling for a small production or short runs. These properties are ideal in small scale productions for custom foam applications such as custom seating, padding, and cushioning. Generally, lower density grade foams are softer than higher density foams. For firmer foam quality, 8 or 6 pound-per-cubic foot formulas are recommended. The free-rise density of the foam is 4.5 pounds per cubic foot, and the cell structure is designed to be 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-F04A-Hand-Mixable-Flexible-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0705 g/cc	0.00255 lb/in ³	Free Rise Density
	0.0785 g/cc	0.00284 lb/in ³	Typical Compression Density

Mechanical Properties	Metric	English	Comments
Hardness, Shore OO	30 - 45	30 - 45	
Tensile Strength	0.207 MPa	30.0 psi	
Elongation at Break	138 %	138 %	
Compressive Strength	0.0124 MPa	1.80 psi	
	@Strain 25.0 %	@Strain 25.0 %	
	0.0241 MPa	3.50 psi	
	@Strain 50.0 %	@Strain 50.0 %	
Rebound	31 %	31 %	Bashore Rebound
Tear Strength	0.701 kN/m	4.00 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	19.8 - 30.0 min Metric	0.330 - 0.500 hour English	Comments
	@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	0.170 - 0.250 min	0.170 - 0.250 min	

Descriptive Properties	Value	Comments
Curing Agent	PPB-023	
Prepolymer	MSA-018	
Weight Ratio	1:1.27	Prepolymer to Curing Agent Ratio

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