

Northstar Polymers MPP-M09D "Slow Cure" Semi-Rigid Foam Formulation

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

Material Notes:

This foam polyurethane formulation is designed yield structural foam by either hand-mixing or machine casting method. The pot-life of this material is set longer than ordinary rigid foam formulations to allow enough handling time in a hand-mixing operation. Unlike common rigid foam formulation, the semi-rigid foam structure of MPP-M09D resists cracking and chipping from impact force by slight flexibility. This combination of features makes MPP-M09A ideal for cat-in-place foam application, molding compound for short-run parts, and many other custom applications. The components are liquid at room temperature. This can be batched manually by hand tools, and also be cast with a multi-component meter-mixing/dispensing machine. The free-rise density of the foam is 9 pounds-per-cubic-foot, the cell structure is closed-cell. Information provided by Northstar Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Northstar-Polymers-MPP-M09D-Slow-Cure-Semi-Rigid-Foam-Formulation.php

Physical Properties	Metric	English	Comments
Density	0.131 - 0.136 g/cc	0.00475 - 0.00492 lb/in ³	Free Rise Density
	0.144 g/cc	0.00521 lb/in ³	Compressed Density

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 - 43.3 °C	100 - 110 °F	
Cure Time	120 - 240 min	2.00 - 4.00 hour	De-mold Time
	@Temperature 43.3 °C	@Temperature 110 °F	
	2880 min	48.0 hour	Complete Cure Cycle
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	5.00 - 6.00 min	5.00 - 6.00 min	

Descriptive Properties	Value	Comments
Curing Agent	PPD-012	
Prepolymer	MNB-013	
Weight Ratio	1:0.863	Prepolymer to Curing Agent Ratio

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