

Northstar Polymers MPG-D70A Room-Temperature-Curable Polyurethane Casting Elastomer

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

Material Notes:

MPG-D70A is room-temperature-curable polyurethane casting elastomer system designed for molding polyurethane parts with tough, but flexible physical characteristics. The typical applications for this formulation includes prototyping, casing, and in-house tool making. The components for this formulation have low viscosity, which is an advantage to fill thinner parts of the mold; it helps recreating the fine resolution of the mold surface pattern, and avoids trapping large air bubbles. Relatively forgiving pot-life and short demolding time helps the production rate when it is use in a project with a larger production quantity requirement. Information provided by Northstar Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Northstar-Polymers-MPG-D70A-Room-Temperature-Curable-Polyurethane-Casting-Elastomer.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65 - 70	65 - 70	ASTM D2240
Tensile Strength	24.8 MPa	3600 psi	ASTM D412
Elongation at Break	60 %	60 %	ASTM D412
Tear Strength	154 kN/m	880 pli	Die C; ASTM D624

Processing Properties	Metric	English	Comments
Processing Temperature	21.1 - 25.0 °C	70.0 - 77.0 °F	Prepolymer Temperature
	21.1 - 25.0 °C	70.0 - 77.0 °F	Curing Agent Temperature
Mold Temperature	21.1 - 48.9 °C	70.0 - 120 °F	
Cure Time	6.00 - 42.0 min	0.100 - 0.700 hour	De-mold Time
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	4320 - 10100 min	72.0 - 168 hour	Complete Cure Cycle
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	3.00 min	3.00 min	

Descriptive Properties	Value	Comments
Curing Agent	PBA-013	
Prepolymer	MGA-018	
Weight Ratio	1:0.675	Prepolymer to Curing Agent Ratio

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