

Northstar Polymers MPP-A80H Room-Temperature Curable Polyurethane

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

Material Notes:

MPP-A80H has been specifically formulated to service applications where high elongation and good physical strength are required as well as where temperature during the process must be low for a very small shrinkage and a low processing temperature requirement. The component materials are liquid at room temperature allowing a user to process without heating the components. The reactivity is controlled specifically to be very slow so that the exothermic heat does not exceed the specific temperature range. This attributes to a very small shrinkage rate. This formula may be suitable when the high temperature at curing is an issue. The completely cured parts made of this material exhibit good tensile, elongation, abrasion resistance, and tear resistance properties. If the higher temperature for curing is not an issue, the higher catalyst level and elevated temperature will increase the curing rate to improve the turnaround rate. Information provided by Northstar Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Northstar-Polymers-MPP-A80H-Room-Temperature-Curable-Polyurethane.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75 - 80	75 - 80	ASTM D2240
Tensile Strength	12.53 MPa	1818 psi	ASTM D412
Elongation at Break	813 %	813 %	ASTM D412
Tear Strength	26.6 kN/m	152 pli	Split; ASTM D624
	74.9 kN/m	427 pli	Die-C; ASTM D624

Processing Properties	Metric	English	Comments
Processing Temperature	22.2 - 26.7 °C	72.0 - 80.0 °F	Prepolymer Temperature
	22.2 - 26.7 °C	72.0 - 80.0 °F	Curing Agent Temperature
Mold Temperature	50.0 °C	122 °F	
Cure Time	>= 240 min	>= 4.00 hour	De-mold Time
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	20200 - 30200 min	336 - 504 hour	Complete Cure Cycle
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	>= 15.0 min	>= 15.0 min	

Descriptive Properties	Value	Comments
Curing Agent	BPB-005	

Prepolymer Descriptive Properties	MPA-053 Value	Comments
Weight Ratio	1:0.093	Prepolymer to Curing Agent Ratio

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