

Northstar Polymers MPP-A60A Liquid Castable Polyurethane

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

Material Notes:

MPP-A60A is a room-temperature-cure liquid castable polyurethane system. This ether-base polyurethane system is used in applications such as mold-making, prototyping, production of cast parts, potting, tool-making, and many other applications. MPP-A60A is designed for an easy operation for industrial applications without special casting or heating equipment. Its low viscosity also makes it easy to achieve replicating the details of the mold/original with a fine resolution. Urethane elastomer parts made of this system exhibit: Fine resolution of mold details Good cut/tear resistance for its class Good performance in wet environments Easy-to-use room-temperature-curable Small shrinkage factor The suitable applications of MPP-A60A include stamps/patterns and molds designed to transfer a decorative image to wet surfaces as well as a potting compound for electronic applications where low viscosity liquid resin is required to encapsulate small wires and components. It is also suitable for many other custom applications where flexibility and strength of the parts are required. Information provided by Northstar Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Northstar-Polymers-MPP-A60A-Liquid-Castable-Polyurethane.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55 - 60	55 - 60	ASTM D2240
Tensile Strength	2.52 MPa	366 psi	ASTM D412
Elongation at Break	157 %	157 %	ASTM D412
Rebound	40 %	40 %	Bashore Rebound; ASTM D2632
Tear Strength	2.45 kN/m	14.0 pli	Split; ASTM D624
	20.7 kN/m	118 pli	Die C; ASTM D624

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	21.1 - 32.2 °C	70.0 - 90.0 °F	
Cure Time	240 - 360 min	4.00 - 6.00 hour	De-mold Time
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	2880 min	48.0 hour	Complete Cure Cycle
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	10.0 - 15.0 min	10.0 - 15.0 min	

Descriptive Properties	Value	Comments
Curing Agent	PBA-055	
Prepolymer	MPN-023	
Weight Ratio	1:2.38	Prepolymer to Curing Agent Ratio

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