

Northstar Polymers MPP-A47A Liquid Castable Polyurethane

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

Material Notes:

MPP-A47A 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-A47A is designed for an easy operation for industrial applications without special casting or heating equipment. The mixing ratio between part-A (MPN-023) and part-B (PBA-058) is 1:3 by volume. 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 resiliency and elongation 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-A47A include stamps/patterns and concrete molds designed to transfer a decorative image to wet surfaces. Its property of small shrinkage rate provides users with a tight dimensional stability when a replication is made. 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-A47A-Liquid-Castable-Polyurethane.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	47	47	ASTM D2240
Tensile Strength	3.45 MPa	500 psi	ASTM D412
Elongation at Break	520 %	520 %	ASTM D412
Tear Strength	2.45 kN/m	14.0 pli	Split; ASTM D624
	15.8 kN/m	90.0 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	360 - 480 min	6.00 - 8.00 hour	De-mold Time
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1440 - 2160 min	24.0 - 36.0 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-058	

Descriptive Properties	Value	Comments
Prepolymer	MPN-023	
Weight Ratio	1:2.617	Prepolymer to Curing Agent Ratio

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