

Northstar Polymers MPA-A30B Mold-Making Resin

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

Material Notes:

MPA-A30B 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. MPA-A30B is designed for an easy operation for industrial applications without special casting or heating equipment. The mixing ratio between part-A (MPC-038) and part-B (PAA-071) is 1:2 by volume. The material is specially formulated to be less moisture sensitive for relatively uncontrolled processing environments. 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 for easy demolding of parts Good cut/tear resistance for its class Good performance in wet environments The suitable applications of MPA-A30B 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.Information provided by Northstar Polymers.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Northstar-Polymers-MPA-A30B-Mold-Making-Resin.php

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-----------|----------|------------------|
| Hardness, Shore A | 30 - 35 | 30 - 35 | ASTM D2240 |
| Tensile Strength | 3.30 MPa | 478 psi | ASTM D412 |
| Elongation at Break | 435 % | 435 % | ASTM D412 |
| Tear Strength | 9.12 kN/m | 52.0 pli | Split; ASTM D624 |
| | 25.9 kN/m | 148 pli | Die-C; ASTM D624 |

| Processing Properties | Metric | English | Comments |
|------------------------|----------------------|----------------------|--------------------------|
| Processing Temperature | 18.3 - 32.2 °C | 65.0 - 90.0 °F | Prepolymer Temperature |
| | 18.3 - 32.2 °C | 65.0 - 90.0 °F | Curing Agent Temperature |
| Mold Temperature | 21.1 - 71.1 °C | 70.0 - 160 °F | |
| Cure Time | 480 min | 8.00 hour | De-mold Time |
| | @Temperature 25.0 °C | @Temperature 77.0 °F | |
| | 4320 - 5760 min | 72.0 - 96.0 hour | Complete Cure Cycle |
| | @Temperature 25.0 °C | @Temperature 77.0 °F | |
| Pot Life | 17.0 - 20.0 min | 17.0 - 20.0 min | |

| Descriptive Properties | Value | Comments |
|------------------------|------------------------|----------|
| Appearance at 25°C | Semi-translucent amber | |

| Descriptive Properties | Value | Comments |
|------------------------|---------|----------------------------------|
| Curing Agent | PAA-071 | |
| Prepolymer | MPC-038 | |
| Weight Ratio | 1:1.869 | Prepolymer to Curing Agent Ratio |

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