

## Northstar Polymers MPG-A25A Room-Temperature Curable Liquid Castable Polyurethane

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

### Material Notes:

MPG-A25A 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. MPG-A25A is designed for an easy operation for industrial applications without special casting or heating equipment. The mixing ratio between part-A (MPG-062) and part-B (PPA-059) is 1:1 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 Highly flexible finish for easy demolding of parts 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 MPG-A25A include stamps/patterns and concrete molds designed to transfer a decorative image to wet surfaces. This material is recommended specially for making patterns with high degree of under cuts. Information provided by Northstar Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Northstar-Polymers-MPG-A25A-Room-Temperature-Curable-Liquid-Castable-Polyurethane.php](http://www.lookpolymers.com/polymer_Northstar-Polymers-MPG-A25A-Room-Temperature-Curable-Liquid-Castable-Polyurethane.php)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	20 - 27	20 - 27	ASTM D2240
Tensile Strength	2.14 MPa	311 psi	ASTM D412
Elongation at Break	291 %	291 %	ASTM D412
Tear Strength	3.51 kN/m	20.0 pli	Split; ASTM D624
	10.7 kN/m	61.0 pli	Die-C; ASTM D624

Processing Properties	Metric	English	Comments
Processing Temperature	21.1 - 35.0 °C	70.0 - 95.0 °F	Prepolymer Temperature
	21.1 - 35.0 °C	70.0 - 95.0 °F	Curing Agent Temperature
Mold Temperature	21.1 - 35.0 °C	70.0 - 95.0 °F	
Cure Time	300 - 480 min	5.00 - 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	20.0 min	20.0 min	

Descriptive Properties	Value	Comments
Curing Agent	PPA-059	
Prepolymer	MPG-062	
Weight Ratio	1:0.966	Prepolymer to Curing Agent Ratio

## Contact Songhan Plastic Technology Co.,Ltd.

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