

Northstar Polymers MPP-D65A Polyether Base Polyurethane Resin

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

Material Notes:

MPP-D65A is a polyether base 2-component polyurethane resin casting system for molding and potting applications. It has a long pot-life and gradual curing pattern to provide easier handling for molding 65D hardness urethane material which is stiff but has some flexibility to resist cracking. Typical applications may be molding prototype parts, short run of specialty parts, and other custom parts as well as potting electric components. Because of its relatively long pot life and slow/gradual curing pattern, it allows an easier process to make larger parts comparing to more commonly available faster curing room-temperature casting systems by manual mixing/casting process. Information provided by Northstar Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Northstar-Polymers-MPP-D65A-Polyether-Base-Polyurethane-Resin.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60 - 70	60 - 70	ASTM D2240
Tensile Strength	8.62 MPa	1250 psi	ASTM D412
Elongation at Break	34 %	34 %	ASTM D412
Rebound	25 %	25 %	Bashore Rebound; ASTM D2632
Tear Strength	68.0 kN/m	388 pli	Die C; ASTM D624

Processing Properties	Metric	English	Comments
Processing Temperature	21.1 - 25.0 °C	70.0 - 77.0 °F	Prepolymer Temperature
	21.1 - 25.0 °C	70.0 - 77.0 °F	Curing Agent Temperature
Mold Temperature	21.1 - 48.9 °C	70.0 - 120 °F	
Cure Time	60.0 min	1.00 hour	De-mold Time
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	120 - 240 min	2.00 - 4.00 hour	Complete Cure Cycle
	@Temperature 82.2 °C	@Temperature 180 °F	
Pot Life	2880 - 4320 min	48.0 - 72.0 hour	Complete Cure Cycle
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	10.0 - 13.0 min	10.0 - 13.0 min	

Descriptive Properties	Value	Comments
Curing Agent	PPA-017	

Descriptive Properties	Value	Comments
Weight Ratio	1:1.25	Prepolymer to Curing Agent Ratio

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