

Northstar Polymers MPP-W43C Polyurethane Gel

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Elastomer, Unreinforced

Material Notes:

MPP-W43C is a polyurethane gel formulation specifically designed for padding and cushioning applications that require Shore Durometer 000 scale hardness materials. With this material, a user can obtain good rebound characteristics and gradual compression deflection rates at the Shore 000 hardness range. The material does not contain any plasticizer, which is known to leach out to have adverse effect to the plastic film encapsulation materials used in conjunction with gel materials. This formula uses the same part-B (PNA-157) as standard Shore 00 polyurethane gel. This allows you to make variety products with fewer raw material inventories. The applications for this material include cushioning and padding parts for medical/semi-medical application, fiber optic cable encapsulation, novelty products, and many more. This polyurethane gel material is formulated in such a way that the user can control/choose the hardness/deflection properties of the product. Information provided by Northstar Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Northstar-Polymers-MPP-W43C-Polyurethane-Gel.php

Processing Properties	Metric	English	Comments
Processing Temperature	22.2 - 30.0 °C	72.0 - 86.0 °F	Prepolymer Temperature
	22.2 - 30.0 °C	72.0 - 86.0 °F	Curing Agent Temperature
Mold Temperature	22.2 - 30.0 °C	72.0 - 86.0 °F	
Cure Time	120 - 300 min	2.00 - 5.00 hour	De-mold Time
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1440 - 2880 min	24.0 - 48.0 hour	Complete Cure Cycle
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	5.00 min	5.00 min	

Descriptive Properties	Value	Comments
Curing Agent	PNA-157	
Prepolymer	MPC-070	
Weight Ratio	1:4.009	Prepolymer to Curing Agent Ratio, Shore Hardness 000 65
	1:4.556	Prepolymer to Curing Agent Ratio, Shore Hardness 000 55
	1:5.103	Prepolymer to Curing Agent Ratio, Shore Hardness 000 40
	1:5.285	Prepolymer to Curing Agent Ratio, Shore Hardness 000 35
	1:5.467	Prepolymer to Curing Agent Ratio, Shore Hardness 000 30
	1:5.65	Prepolymer to Curing Agent Ratio, Shore Hardness 000 25

Descriptive Properties	Value	Comments
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