

Northstar Polymers MPL-R20B Rigid Polyurethane Foam Formulation

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

Material Notes:

This rigid polyurethane foam system is one of a family of polymer systems developed by Northstar Polymers for specific applications. Urethane foams molded with this system exhibit closed cell structure, and its high-density foam structure provides a very good load bearing capability. The both components are low viscosity liquid and together with its easy mixing ratio of 1: 1 by volume, this material is ideal as a bonding agent structural composite. A user can mix and pour the mixture with common tools without an expensive casting/spray machine. This foam can also be mix/cast by a meter mixing machine. This foam do not use a volatile auxiliary blowing-agent and can be operated in a ambient workplace without being flame/spark-free environment. This combination of features makes MPL-R20B ideal for molded/cast structural parts, cat-in-place structural foam material, structural composites, and many other custom applications. Information provided by Northstar Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Northstar-Polymers-MPL-R20B-Rigid-Polyurethane-Foam-Formulation.php

Physical Properties	Metric	English	Comments
Density	0.320 g/cc	0.0116 lb/in ³	Free Rise Density

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	45	45	
Flexural Strength	7.543 MPa	1094 psi	ASTM D-790
Compressive Strength	6.61 MPa @Strain 10.0 %	959 psi @Strain 10.0 %	ASTM D1621

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	37.8 - 43.3 °C	100 - 110 °F	
Cure Time	60.0 min @Temperature 25.0 °C	1.00 hour @Temperature 77.0 °F	De-mold Time
	1440 min @Temperature 25.0 °C	24.0 hour @Temperature 77.0 °F	Complete Cure Cycle
Pot Life	1.00 min	1.00 min	

Descriptive Properties	Value	Comments
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Appearance at 25°C Descriptive Properties	Dark Yellow to Amber Value	Comments
Curing Agent	PLA-012	
Mixing Time	30	
Prepolymer	MNA-013	
Weight Ratio	1:0.87	Prepolymer to Curing Agent Ratio

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China