

Northstar Polymers MSB-A95A High Performance Polyurethane Cast Elastomer System

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

Material Notes:

This is a Ester/MDI base high-performance polyurethane casting system. This systems is recommended to applications in which the part requires high tensile strength, cut/tear resistance, dry-abrasion resistance, slow response speed, and low energy rebound/response. Ester base systems are generally less expensive than PTMEG base material. Possible applications for this material include skirting for conveyer belts, abrasion resistance liners and parts, and other specialty parts. This is a conventional "full-prepolymer" type material cured with 1,4 BDO. Can be approved for FDA dry food contact. Information provided by Northstar Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Northstar-Polymers-MSB-A95A-High-Performance-Polyurethane-Cast-Elastomer-System.php

| Mechanical Properties | Metric | English | Comments |
|--------------------------------|------------|----------|-----------------------------|
| Hardness, Shore A | 95 | 95 | ASTM D2240 |
| Tensile Strength | 29.41 MPa | 4266 psi | ASTM D412 |
| Elongation at Break | 400 % | 400 % | ASTM D412 |
| 100% Modulus | 0.0103 GPa | 1.50 ksi | ASTM D412 |
| 300% Modulus | 0.0228 GPa | 3.30 ksi | ASTM D412 |
| Rebound | 30 % | 30 % | Bashore Rebound; ASTM D2632 |
| Tear Strength | 52.6 kN/m | 300 pli | Split; ASTM D624 |
| | 123 kN/m | 700 pli | Die C; ASTM D624 |
| Taber Abrasion, mg/1000 Cycles | 8.0 | 8.0 | ASTM D4060 |

| Processing Properties | Metric | English | Comments |
|------------------------|----------------------|---------------------|--------------------------|
| Processing Temperature | 25.0 °C | 77.0 °F | Curing Agent Temperature |
| | 82.2 - 93.3 °C | 180 - 200 °F | Prepolymer Temperature |
| Mold Temperature | 82.2 - 93.3 °C | 180 - 200 °F | |
| Cure Time | 15.0 min | 0.250 hour | De-mold Time |
| | @Temperature 93.3 °C | @Temperature 200 °F | |
| | 960 min | 16.0 hour | Complete Cure Cycle |
| | @Temperature 82.2 °C | @Temperature 180 °F | |
| Pot Life | 3.00 min | 3.00 min | |

| Descriptive Properties | Value | Comments |
|------------------------|---------|----------------------------------|
| Curing Agent | BNA-005 | |
| Prepolymer | MSA-042 | |
| Weight Ratio | 1:0.102 | Prepolymer to Curing Agent Ratio |

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