

## Northstar Polymers MSS-A85BQ High Performance Polyurethane Cast Elastomer System 85A

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. Unlike conventional full-prepolymer systems, quasi system formulation improves processability, in-mold flow, and components mixing by use of low viscosity prepolymer. This results better physical properties of the products. 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-MSS-A85BQ-High-Performance-Polyurethane-Cast-Elastomer-System-85A.php](http://www.lookpolymers.com/polymer_Northstar-Polymers-MSS-A85BQ-High-Performance-Polyurethane-Cast-Elastomer-System-85A.php)

| Mechanical Properties          | Metric       | English   | Comments                    |
|--------------------------------|--------------|-----------|-----------------------------|
| Hardness, Shore A              | 85           | 85        | ASTM D2240                  |
| Tensile Strength               | 42.7 MPa     | 6200 psi  | ASTM D412                   |
| Elongation at Break            | 800 %        | 800 %     | ASTM D412                   |
| 100% Modulus                   | 0.008515 GPa | 1.235 ksi | ASTM D412                   |
| 300% Modulus                   | 0.0201 GPa   | 2.91 ksi  | ASTM D412                   |
| Rebound                        | 38 %         | 38 %      | Bashore Rebound; ASTM D2632 |
| Tear Strength                  | 83.3 kN/m    | 475 pli   | Split; ASTM D624            |
|                                | 126 kN/m     | 720 pli   | Die C; ASTM D624            |
| Taber Abrasion, mg/1000 Cycles | 30           | 30        | ASTM D4060                  |

| Processing Properties  | Metric               | English             | Comments                 |
|------------------------|----------------------|---------------------|--------------------------|
| Processing Temperature | 21.1 °C              | 70.0 °F             | Prepolymer Temperature   |
|                        | 82.2 °C              | 180 °F              | Curing Agent Temperature |
| Mold Temperature       | 82.2 °C              | 180 °F              |                          |
| Cure Time              | 30.0 - 40.2 min      | 0.500 - 0.670 hour  | De-mold Time             |
|                        | @Temperature 82.2 °C | @Temperature 180 °F |                          |
|                        | 960 - 1440 min       | 16.0 - 24.0 hour    | Complete Cure Cycle      |
|                        | @Temperature 82.2 °C | @Temperature 180 °F |                          |

| Processing Properties | Metric   | English  | Comments |
|-----------------------|----------|----------|----------|
| Gel Time              | 4.00 min | 4.00 min |          |

| Descriptive Properties | Value   | Comments                         |
|------------------------|---------|----------------------------------|
| Curing Agent           | SBA-030 |                                  |
| Prepolymer             | MSA-018 |                                  |
| Weight Ratio           | 1:1.636 | Prepolymer to Curing Agent Ratio |

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