

Bayflex® WR-20

Polyurethane (Polyether, MDI)

Covestro - PUR

Message:

Bayflex WR-20 is a solid elastomer which has a flexural modulus of 3,000 psi (21 MPa) at room temperature. It is processed on reaction injection molding (RIM) equipment and is used for rollers, gaskets, and encapsulated windows. This system combines rapid demold times, excellent integrity at demold, improved release characteristics, and outstanding physical properties. The Bayflex WR-20 system was developed to add a weather-resistant grade to our range of window encapsulation systems. In some cases, the weatherability of this system eliminates the need for post-painting or in-mold coatings. This product is available only in black. Bayflex WR-20 is a formulated RIM system supplied as two reactive liquid components. Component A is a diphenylmethane diisocyanate (MDI) prepolymer, and Component B is a polyether polyol. As with any product, use of the Bayflex WR-20 system in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

| General Information | | | |
|-------------------------------------|----------------------------------|-------------------|-----------------|
| Features | Good weather resistance | | |
| | Good demoulding performance | | |
| Uses | Washer | | |
| | Roller | | |
| | Doors and Windows | | |
| Appearance | Black | | |
| Forms | Liquid | | |
| Processing Method | Reaction Injection Molding (RIM) | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.00 | g/cm ³ | ASTM D1622 |
| Water Absorption (24 hr) | 3.8 | % | Internal method |
| Water absorption rate-240 hr | 7.4 | % | Internal method |
| Low Temperature Brittleness (-50°C) | No Cracking | | ASTM D746 |
| Water Immersion, Length Increase | 1.6 | % | Internal method |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 70 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Flexural Modulus | | | ASTM D790 |
| -30°C | 60.7 | MPa | ASTM D790 |
| 23°C | 20.7 | MPa | ASTM D790 |
| 65°C | 17.2 | MPa | ASTM D790 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 11.0 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 450 | % | ASTM D412 |
| Tear Strength ¹ | 33.3 | kN/m | ASTM D624 |
| Thermoset | Nominal Value | Unit | Test Method |
| Thermoset Components ² | | | |

| | | | |
|---|-----------------------------|------|-------------|
| Component a | Mixing ratio by weight: 30 | | |
| Component B | Mixing ratio by weight: 100 | | |
| Demold Time | 0.50 | min | |
| Additional Information | Nominal Value | Unit | Test Method |
| Part A Type: Isocyanate Specific Gravity @ 25°C: 1.21 Viscosity @25°C: 700 mPa-s Flash Point PMCC: 213 °C Part B Type: Polyol Specific Gravity @ 25°C: 1.02 Viscosity @25°C: 1400 mPa-s Flash Point PMCC: 191 °C Molding Parameters Material Temperature: 32 to 42 °C Mold Temperature: 60 to 70 °C | | | |
| NOTE | | | |
| 1. | C mould | | |
| 2. | 105 Index | | |

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