

Bayflex® 906 (29 pcf)

Polyurethane (MDI)

Covestro - PUR

Message:

Bayflex 906 is a fully compounded, water-blown, polyether-based polyurethane system consisting of two liquid components. Component A is a modified diphenylmethane diisocyanate (MDI) prepolymer, and Component B is a polyether polyol system. Bayflex 906 system was developed for use in a wide variety of applications requiring a microcellular core and a tough, abrasion-resistant outer surface. Examples of possible applications include appliance handles, office chair armrests, and dunnage strips. As with any product, use of the Bayflex 906 system in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

| General Information | | | |
|---|-----------------------------|------|-------------|
| Uses | Foam | | |
| Forms | Liquid | | |
| Hardness | Nominal Value | | Test Method |
| Durometer Hardness (Shaw A, 12.7mm) | 66 | | ASTM D2240 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Strength (Break, 12.7 mm) | 3.48 | MPa | ASTM D412 |
| Tensile Elongation (Break, 12.7 mm) | 150 | % | ASTM D412 |
| Tear Strength ¹ (12.7 mm) | 15.8 | kN/m | ASTM D624 |
| Thermoset | Nominal Value | | |
| Thermoset Components ² | | | |
| Component a | Mixing ratio by weight: 73 | | |
| Component B | Mixing ratio by weight: 100 | | |
| Additional Information | | | |
| Part A | | | |
| Type: Isocyanate | | | |
| Specific Gravity @ 25°C: 1.21 | | | |
| Viscosity @25°C: 800 mPa | | | |
| Flash Point, PMCC: 213°C | | | |
| NCO: 22.6 to 23.1 wt% | | | |
| Part B | | | |
| Type: Polyol | | | |
| Specific Gravity @ 25°C: 1.02 | | | |
| Viscosity @25°C: 1100 mPa-s | | | |
| Flash Point, PMCC: 121°C | | | |
| Water: 0.60 wt% max | | | |
| Hydroxyl Number: 194: mg KOH/g | | | |
| Material Temperatures: 25 to 40°C | | | |
| Mold Temperature: 55 to 65°C | | | |
| Demold Time, 0.25 in thickness: 3.5 min | | | |
| Linear Shrinkage at 0.50 g/cm³: <0.5% | | | |
| Hand Mix | | | |
| Reactivity at 23°C | | | |
| Cream Time: 50 sec | | | |
| Tack-Free Time: 60 sec | | | |
| Pull Time: 90 sec | | | |
| Free-Rise Density: 11 to 16 lb/ft³ | | | |
| NOTE | | | |
| 1. | C mould | | |
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