

BJB Polyurethane TC-995 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

TC-995 A/B is a two-component urethane casting compound that is specifically formulated for high abrasion and impact resistance. It is recommended for use in the casting of highly wear-resistant parts and linings. This product is a safe, easy-to-handle, room temperature mixing and curing system that does not contain TDI, MDI, MDA, or MOCA. TC-995 A/B is relatively insensitive to typical environmental moisture and will make good void-free parts. Because of this product's exceptional toughness and abrasion resistance, castings made with TC-995 A/B are particularly suitable for mining and mineral process industries.

| General Information | | | |
|-------------------------------|--------------------------|-------------------|-------------|
| Features | Good Abrasion Resistance | | |
| | Good Toughness | | |
| | Good Wear Resistance | | |
| | High Impact Resistance | | |
| Uses | Industrial Applications | | |
| | Liners | | |
| Appearance | Clear/Transparent | | |
| Forms | Liquid | | |
| Processing Method | Casting | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.10 | g/cm ³ | ASTM D792 |
| Specific Gravity | | | |
| Part A | 1.047 | g/cm ³ | |
| Part B | 1.097 | g/cm ³ | |
| Shrinkage | 0.15 | % | ASTM D2566 |
| Demold Time (25°C) | 6.0 to 8.0 | hr | |
| Gel Time | 40.0 | min | |
| Work Time (25°C) ¹ | 25.0 | min | |
| Brookfield Viscosity | | | |
| Mixed : 25°C | 1.27 | Pa·s | |
| Part A : 25°C | 6.64 | Pa·s | |
| Part B : 25°C | 0.125 | Pa·s | |
| Molding Shrinkage - Flow | 0.15 | % | ASTM D2566 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 90 to 100 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 126 | MPa | ASTM D412 |
| Elastomers | Nominal Value | Unit | Test Method |

| | | | |
|----------------------------|--|------|-----------|
| Tensile Stress | | | ASTM D412 |
| 100% Strain | 11.4 | MPa | |
| 200% Strain | 16.2 | MPa | |
| Tensile Strength (Yield) | 19.3 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 350 | % | ASTM D412 |
| Tear Strength | 52.0 | kN/m | ASTM D624 |
| Thermoset | Nominal Value | Unit | |
| Thermoset Components | | | |
| Part A | Mix Ratio by Weight: 96, Mix Ratio by Volume: 100 | | |
| Part B | Mix Ratio by Weight: 100, Mix Ratio by Volume: 100 | | |
| Shelf Life | 26 | wk | |
| NOTE | | | |
| 1. | 100g | | |

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