

BJB Polyurethane TC-885 A/B FR

Polyurethane
BJB Enterprises, Inc.

Message:

TC-885 A/B FR produces a high impact rigid 78 Shore D material that is commonly used to make computer housings, models of all kinds, artwork, and can also be used for electronic component enclosures. It provides a working time of 6 minutes.

| General Information | | | |
|------------------------------------|------------------------------------|-------------------|----------------|
| UL YellowCard | E174527-479904 | | |
| Features | Flame Retardant | | |
| | High Impact Resistance | | |
| | Low to No Odor | | |
| | Low Viscosity | | |
| Uses | Computer Components | | |
| | Electrical/Electronic Applications | | |
| Appearance | Opaque | | |
| | White | | |
| Forms | Liquid | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.26 | g/cm ³ | ASTM D792 |
| Specific Gravity | | | |
| Part A | 1.10 | | |
| Part B | 1.38 | | |
| Ball Pressure Test (75°C) | 1.17 | mm | IEC 60695-10-2 |
| Gel Time | 7.0 | min | |
| Work Time (25°C) ¹ | 6.0 | min | |
| Brookfield Viscosity | | | |
| Part A : 25°C | 75 | mPa · s | |
| Part B : 25°C | 3500 | mPa · s | |
| Molding Shrinkage - Flow (12.7 mm) | 0.50 | % | ASTM D955 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 76 to 80 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 1590 | MPa | ASTM D638 |
| Tensile Strength | 42.1 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 5.0 | % | ASTM D638 |
| Flexural Modulus | 1590 | MPa | ASTM D790 |

| | | | |
|-----------------------------------|--|------|-------------|
| Flexural Strength | 59.3 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 33 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 87.8 to 93.3 | °C | |
| 1.8 MPa, Unannealed | 79.4 to 85.0 | °C | |
| Flammability | Nominal Value | | Test Method |
| Flame Rating (3.18 mm) | V-0 | | UL 94 |
| Thermoset | Nominal Value | Unit | Test Method |
| Thermoset Components | | | |
| Part A | Mix Ratio by Weight: 100, Mix Ratio by Volume: 100 | | |
| Part B | Mix Ratio by Weight: 85, Mix Ratio by Volume: 68 | | |
| Shelf Life | 13 | wk | |
| Thermoset Mix Viscosity (25°C) | 350 | cP | ASTM D2393 |
| Demold Time (25°C) | 60 to 120 | min | |
| Post Cure Time (82°C) | 16 | hr | |
| NOTE | | | |
| 1. | 100 g mass | | |

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