# BJB Polyurethane TC-890 A/B

Polyurethane

BJB Enterprises, Inc.

## Message:

TC-890 A/B incorporates a non-mercury based catalyst system that produces a tough 80 shore D material with a 5-minute work time. This system can be used to hand pour electronic housing, models of all kinds, and point of purchase items. This system is also available in a 20-minute work time (TC-892), and a 12-minute work time (TC-891).
Product Highlights:
Non-mercury
Convenient mixing ratio: 1 to 1 parts by weight
Low viscosity, flows easily
Demold time: 1-2 hours at ambient temperature in a silicone rubber mold (1/8" thick section)

| General Information | | | |
|---|---|---|---|
| Features | Low viscosity<br>Good liquidity | | |
| Uses | Electrical/Electronic Applications<br>Electrical housing | | |
| Appearance | White<br>Opacity | | |
| Forms | Liquid | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Specific Gravity | 1.14 | g/cm³ | ASTM D792 |
| Specific Gravity | | | |
| Part A | 1.177 | g/cm³ | |
| Part B | 1.037 | g/cm³ | |
| Contractility (1.27cm) | 0.40 | % | |
| Gel Time | 7.0 | min | |
| Work Time (25°C) | 5.0 | min | |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness (Shore D) | 78 - 82 | | ASTM D2240 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 1650 | MPa | ASTM D638 |
| Tensile Strength | 52.4 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 10 | % | ASTM D638 |
| Flexural Modulus | 1720 | MPa | ASTM D790 |
| Flexural Strength | 68.9 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact | 37 | J/m | ASTM D256 |

| Thermal | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, not annealed | 90.6 | °C | ASTM D648 |
| 1.8 MPa, not annealed | 80.6 | °C | ASTM D648 |

| Thermoset | Nominal Value | Unit |
|---|---|---|
| Thermoset Components | | |
| Component a | Mixing ratio by weight: 100, mixing ratio by capacity: 88 | |
| Component B | Mixing ratio by weight: 100, mixing ratio by capacity: 100 | |
| Shelf Life | 26 | wk |
| Thermoset Mix Viscosity | | |
| 25°C [1] | 325 | cP |
| 25°C [2] | 830 | cP |
| 25°C | 725 | cP |
| Demold Time (25°C) | 60 - 120 | min |
| Post Cure Time (82°C) | 16 | hr |

| NOTE | |
|---|---|
| 1. | Part A |
| 2. | Part B |



## Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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