

BCC Resins BC 5003

Epoxy; Epoxide

BCC Products Inc.

Message:

BC 5003 is a medium viscosity, unfilled laminating system. It is a room temperature curing resin with a relatively short pot life. BC 5003 is also considered an excellent general purpose adhesive for in-shop use. Recommended for use in gluing up BCC's Tooling Board Series.

| General Information | | | |
|---|--|-------------------|-------------|
| Features | Good Adhesion | | |
| | Medium Viscosity | | |
| Uses | Adhesives | | |
| | Laminates | | |
| Appearance | Clear/Transparent | | |
| Forms | Liquid | | |
| Processing Method | Laminating | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.14 | g/cm ³ | ASTM D792 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 86 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Ultimate) | 77.2 | MPa | ASTM D638 |
| Flexural Modulus | 3310 | MPa | ASTM D790 |
| Flexural Strength (Break) | 131 | MPa | ASTM D790 |
| Compressive Strength | 116 | MPa | ASTM D695 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 77.8 | °C | ASTM D648 |
| Thermoset | Nominal Value | Unit | Test Method |
| Thermoset Components | | | |
| Hardener | Mix Ratio by Weight: 20, Mix Ratio by Volume: 22 | | |
| Resin | Mix Ratio by Weight: 100, Mix Ratio by Volume: 100 | | |
| Pot Life (24°C) | 14 to 15 | min | |
| Thermoset Mix Viscosity (24°C) | 3500 | cP | ASTM D2393 |
| Demold Time (24°C) | 360 to 480 | min | |

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