

# BCC Resins BC 8990

Polyurethane Thermoset Elastomer

BCC Products Inc.

## Message:

BC8990 is a two-component urethane elastomer compound specifically designed for general purpose molding and casting of various shapes. This product is a safe, easy-to-handle, room temperature mixing and curing system that contains no TDI, MDA or MOCA. BC8990 may be used to provide abrasion resistant liners, pads and bumpers. The low shrinkage, low viscosity, superior toughness, and excellent detail reproduction of makes this system ideal for general purpose castings and quality tooling operations. It may also be used in potting and encapsulating applications.

| General Information          |                          |                   |             |
|------------------------------|--------------------------|-------------------|-------------|
| Features                     | Durable                  |                   |             |
|                              | General Purpose          |                   |             |
|                              | Good Abrasion Resistance |                   |             |
|                              | Good Tear Strength       |                   |             |
|                              | Good Toughness           |                   |             |
|                              | High Hardness            |                   |             |
|                              | Low Moisture Absorption  |                   |             |
|                              | Low Shrinkage            |                   |             |
|                              | Low Viscosity            |                   |             |
|                              | Oil Resistant            |                   |             |
| Uses                         | Adhesives                |                   |             |
|                              | Liners                   |                   |             |
|                              | Molds/Dies/Tools         |                   |             |
| Appearance                   | Amber                    |                   |             |
| Forms                        | Liquid                   |                   |             |
| Processing Method            | Casting                  |                   |             |
|                              | Encapsulating            |                   |             |
|                              | Potting                  |                   |             |
| Physical                     | Nominal Value            | Unit              | Test Method |
| Specific Gravity             | 1.03                     | g/cm <sup>3</sup> | ASTM D792   |
| Hardness                     | Nominal Value            | Unit              | Test Method |
| Durometer Hardness (Shore A) | 82 to 85                 |                   | ASTM D2240  |
| Elastomers                   | Nominal Value            | Unit              | Test Method |
| Tensile Stress (100% Strain) | 3.79                     | MPa               | ASTM D412   |
| Tensile Strength (Yield)     | 12.1                     | MPa               | ASTM D412   |
| Tensile Elongation (Break)   | 720                      | %                 | ASTM D412   |
| Tear Strength <sup>1</sup>   | 30.6                     | kN/m              | ASTM D624   |
| Thermoset                    | Nominal Value            | Unit              | Test Method |

|                         |                          |     |            |
|-------------------------|--------------------------|-----|------------|
| Thermoset Components    |                          |     |            |
| Part A                  | Mix Ratio by Weight: 4.0 |     |            |
| Part B                  | Mix Ratio by Weight: 1.0 |     |            |
| Thermoset Mix Viscosity | ASTM D2393               |     |            |
| 24°C <sup>2</sup>       | 3600                     | cP  |            |
| 24°C <sup>3</sup>       | 50.0                     | cP  |            |
| 24°C <sup>4</sup>       | 6000                     | cP  |            |
| Demold Time (24°C)      | 960 to 1400              | min |            |
| Post Cure Time (24°C)   | 72 to 120                | hr  |            |
| Gel Time (24°C)         | 25.0                     | min | ASTM D2471 |
| NOTE                    |                          |     |            |
| 1.                      | Die C                    |     |            |
| 2.                      | Initial Mixed            |     |            |
| 3.                      | Part B                   |     |            |
| 4.                      | Part A                   |     |            |

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