

## BCC Products BC 8675E Polyurethane Elastomer

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Elastomer, Unreinforced , Rubber or Thermoset Elastomer (TSE)

### Material Notes:

BC 8675E is a multi-purpose elastomer that can perform many functions. Typical product features are: easy to use, cures at room temperature, resists moisture absorption, excellent in use for molds for casting of concrete and plaster, does not contain MOCA, MDA, TDI or MDI. Product uses include: mold fabrication, shock absorbent pads and liners, excellent as an adhesive for high strength and resilient bonds, electrical potting and cable sealing applications, various types of urethane rubber parts. Information provided by BCC Products, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BCC-Products-BC-8675E-Polyurethane-Elastomer.php](http://www.lookpolymers.com/polymer_BCC-Products-BC-8675E-Polyurethane-Elastomer.php)

| Physical Properties   | Metric       | English      | Comments |
|-----------------------|--------------|--------------|----------|
| Specific Gravity      | 1.05 g/cc    | 1.05 g/cc    |          |
| Brookfield Viscosity  | 3000 cP      | 3000 cP      |          |
| Linear Mold Shrinkage | 0.0015 cm/cm | 0.0015 in/in |          |

| Mechanical Properties      | Metric    | English  | Comments              |
|----------------------------|-----------|----------|-----------------------|
| Hardness, Shore A          | 73 - 77   | 73 - 77  | ASTM D2240            |
| Tensile Strength, Ultimate | 15.9 MPa  | 2300 psi | ASTM D412             |
| Elongation at Break        | 650 %     | 650 %    | ASTM D412             |
| Tear Strength              | 33.3 kN/m | 190 pli  | ASTM 4-624-54 D Die C |

| Processing Properties | Metric               | English              | Comments           |
|-----------------------|----------------------|----------------------|--------------------|
| Moisture Content      | 2.8 %                | 2.8 %                | 2 weeks; ASTM D570 |
| Cure Time             | 480 - 840 min        | 8.00 - 14.0 hour     | demold time        |
|                       | @Temperature 24.0 °C | @Temperature 75.2 °F |                    |
|                       | 4320 - 7200 min      | 72.0 - 120 hour      | full cure          |
|                       | @Temperature 24.0 °C | @Temperature 75.2 °F |                    |
| Pot Life              | 25 min               | 25 min               | work life          |
|                       | @Temperature 25.0 °C | @Temperature 77.0 °F |                    |
|                       | 40 min               | 40 min               | gel time (180g)    |
|                       | @Temperature 24.0 °C | @Temperature 75.2 °F |                    |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
|------------------------|-------|----------|

| Mix Ratio<br>Descriptive Properties | 100:45 by weight (resin/hardener)<br>Value | Comments |
|-------------------------------------|--------------------------------------------|----------|
|-------------------------------------|--------------------------------------------|----------|

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