

## Dow SE BCP 817 Stereospecific high cis-1,4 Polybutadiene (BR)

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE)

### Material Notes:

SE BCP 817 is manufactured by a solution process using cobalt catalyst which produces polymers with a very light color and low ash content. A non-staining stabilizer is added during the production process. BCP 817 is suitable for tires, conveyor belting, footwear and mechanical goods. It offers a unique property combination of good abrasion resistance, particularly at high severity, excellent groove crack resistance and good heat aging. Other features include high resilience, low hysteresis, good set properties and a low glass transition point which results in better low temperature performance. BCP 817 is able to accept high filler and oil loadings without significant loss of properties. It may be blended with natural rubber and styrene butadiene (SBR), isoprene (IR), nitrile (NBR), or polychloroprene (CR) synthetic rubbers. BCP 817 is supplied in bales weighing ca. 34 kg. Bales are wrapped in 50 micron PE or EVA film. Information provided by Dow

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dow-SE-BCP-817-Stereospecific-high-cis-14-Polybutadiene-BR.php](http://www.lookpolymers.com/polymer_Dow-SE-BCP-817-Stereospecific-high-cis-14-Polybutadiene-BR.php)

| Physical Properties                     | Metric              | English                         | Comments                        |
|---|---------------------|---------------------------------|---------------------------------|
| Viscosity Measurement                   | 7.6                 | 7.6                             | [min]; ts1, (1 RAD); ASTM D2084 |
|   | @Temperature 160 °C | @Temperature 320 °F             |                                 |
|   | 8.8                 | 8.8                             | [dNm]; ML, (1 RAD); ASTM D2084  |
|   | @Temperature 160 °C | @Temperature 320 °F             |                                 |
|   | 10.5                | 10.5                            | [min]; T50, (1 RAD); ASTM D2084 |
| @Temperature 160 °C                     | @Temperature 320 °F |                                 |                                 |
| 13.9                                    | 13.9                | [min]; T90, (1 RAD); ASTM D2084 |                                 |
| @Temperature 160 °C                     | @Temperature 320 °F |                                 |                                 |
| Mooney Viscosity                        | 36                  | 36                              | [dNm]; MH, (1 RAD); ASTM D2084  |
|   | @Temperature 160 °C | @Temperature 320 °F             |                                 |
| Ash                                     | 33                  | 33                              | [MU]; ML 1+4; ASTM D1646        |
|   | @Temperature 100 °C | @Temperature 212 °F             |                                 |
| Collected Volatile Condensable Material | 0.030 %             | 0.030 %                         | ASTM D1416                      |
| Storage Temperature                     | 0.45 %              | 0.45 %                          | ASTM D1416                      |
|   | <= 30.0 °C          | <= 86.0 °F                      |                                 |

| Mechanical Properties      | Metric   | English  | Comments                          |
|----------------------------|----------|----------|-----------------------------------|
| Tensile Strength, Ultimate | 15.0 MPa | 2180 psi | Die C (35 min / 145°C); ASTM D412 |
|                            | 8.90 MPa | 1290 psi |                                   |

| Tensile Strength, Yield<br>Mechanical Properties | Metric<br>@ Strain 300 % | English<br>@ Strain 300 % | ASTM D412<br>Comments |
|--|--------------------------|---------------------------|-----------------------|
| Elongation at Break                              | 500 %                    | 500 %                     | ASTM D412             |

| Processing Properties | Metric        | English       | Comments |
|-----------------------|---------------|---------------|----------|
| Shelf Life            | >= 12.0 Month | >= 12.0 Month |          |

| Descriptive Properties      | Value | Comments              |
|-----------------------------|-------|-----------------------|
| Accelerator (TBBS) wt%      | 0.9   | ASTM D3189            |
| Carbon Black wt%            | 60    | ASTM D3189; IRB 6     |
| Cis-1,4 Content %           | 97    | Supplier Method (NMR) |
| Dry Gel Content mg/kg       | 200   | Supplier Method       |
| Naphthenic oil type 103 wt% | 15    | ASTM D226             |
| Stearic Acid wt%            | 2     | ASTM D3189            |
| Sulfur content, %           | 1.5   | ASTM D3189            |
| Zinc Oxide wt%              | 3     | ASTM D3189            |

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