

## LG Chemical SBR 1721 High Acrylonitrile Polymer

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

### Material Notes:

Description: SBR 1721 is an oil extended cold polymerization SBR with 37.5 parts of highly aromatic oil and styrene-butadiene copolymer of 40% bound styrene. Raw materials for this product are carefully chosen for the best physical properties. The aromatic oil and high percentage of styrene result in a good miscibility and processing behavior during extrusion and calendaring. Applications: SBR 1721 is recommended for tire applications, especially where improved wet grip properties are required, and other applications include molded and extruded mechanical goods with low resilience. CAS No: 9003-55-8 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-SBR-1721-High-Acrylonitrile-Polymer.php](http://www.lookpolymers.com/polymer_LG-Chemical-SBR-1721-High-Acrylonitrile-Polymer.php)

| Physical Properties | Metric                     | English                    | Comments |
|---------------------|----------------------------|----------------------------|----------|
| Specific Gravity    | 0.970 g/cc                 | 0.970 g/cc                 |          |
| Volatiles           | 0.20 %                     | 0.20 %                     |          |
| Mooney Viscosity    | 55<br>@Temperature 100 Â°C | 55<br>@Temperature 212 Â°F | ML 1+4   |
| Ash                 | 0.20 %                     | 0.20 %                     |          |

| Mechanical Properties     | Metric                                               | English                                              | Comments  |
|---------------------------|------------------------------------------------------|------------------------------------------------------|-----------|
| Tensile Strength at Break | 23.5 MPa<br>@Temperature 145 Â°C,<br>Time 2100 sec   | 3410 psi<br>@Temperature 293 Â°F,<br>Time 0.583 hour | ASTM D412 |
| Elongation at Break       | 580 %<br>@Temperature 145 Â°C,<br>Time 2100 sec      | 580 %<br>@Temperature 293 Â°F,<br>Time 0.583 hour    | ASTM D412 |
| 300% Modulus              | 0.0108 GPa<br>@Temperature 145 Â°C,<br>Time 2100 sec | 1.56 ksi<br>@Temperature 293 Â°F,<br>Time 0.583 hour | ASTM D412 |

| Chemical Properties | Metric | English | Comments |
|---------------------|--------|---------|----------|
| Styrene Content     | 40 %   | 40 %    | Bound    |

| Descriptive Properties | Value           | Comments          |
|------------------------|-----------------|-------------------|
| Color                  | Dark Brown Bale |                   |
| Components             | HAF             | 68.75, ASTM D3185 |

| Descriptive Properties | SBR 1721<br>Value | 137.5, ASTM D3185<br>Comments     |
|------------------------|-------------------|-----------------------------------|
|                        | Stearic Acid      | 1, ASTM D3185                     |
|                        | Sulfur            | 1.75, ASTM D3185                  |
|                        | TBBS              | 1.38, ASTM D3185                  |
|                        | ZnO               | 3, ASTM D3185                     |
| Oil Analysis           | 0.273             |                                   |
| Organic Acid           | 0.05              |                                   |
| Rheometer              | 15.0 min          | t'90, 160Â°C, 1Â° Arc, ASTM D5289 |
|                        | 19.0 lb-in        | MH, 160Â°C, 1Â° Arc, ASTM D5289   |
|                        | 3.0 lb-in         | ML, 160Â°C, 1Â° Arc, ASTM D5289   |
|                        | 4.5 min           | ts1, 160Â°C, 1Â° Arc, ASTM D5289  |
|                        | 8.5 min           | t'50, 160Â°C, 1Â° Arc, ASTM D5289 |
| Soap                   | 0.001             |                                   |

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