

## LG Chemical SBR 1783 High Acrylonitrile Polymer

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

### Material Notes:

Description: SBR 1783 is an oil extended cold polymerization SBR with 37.5 parts of aromatic oil and styrene-butadiene copolymer of 23.5% bound styrene. Raw materials for this product are carefully chosen for the best physical properties. The aromatic oil in SBR 1783 is an eco-friendly type (RAE) which meets the European legislation on extender oil. Applications: SBR 1783 can be used in tire tread, camelback and other industrial products. 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-1783-High-Acrylonitrile-Polymer.php](http://www.lookpolymers.com/polymer_LG-Chemical-SBR-1783-High-Acrylonitrile-Polymer.php)

| Physical Properties | Metric                     | English                    | Comments |
|---------------------|----------------------------|----------------------------|----------|
| Specific Gravity    | 0.950 g/cc                 | 0.950 g/cc                 |          |
| Volatiles           | 0.20 %                     | 0.20 %                     |          |
| Mooney Viscosity    | 49<br>@Temperature 100 Â°C | 49<br>@Temperature 212 Â°F | ML 1+4   |
| Ash                 | 0.20 %                     | 0.20 %                     |          |

| Mechanical Properties     | Metric  | English  | Comments  |
|---------------------------|---|--|-----------|
| Tensile Strength at Break | 25.1 MPa<br>@Temperature 145 Â°C,<br>Time 2100 sec    | 3640 psi<br>@Temperature 293 Â°F,<br>Time 0.583 hour | ASTM D412 |
| Elongation at Break       | 653 %<br>@Temperature 145 Â°C,<br>Time 2100 sec       | 653 %<br>@Temperature 293 Â°F,<br>Time 0.583 hour    | ASTM D412 |
| 300% Modulus              | 0.00981 GPa<br>@Temperature 145 Â°C,<br>Time 2100 sec | 1.42 ksi<br>@Temperature 293 Â°F,<br>Time 0.583 hour | ASTM D412 |

| Chemical Properties | Metric | English | Comments |
|---------------------|--------|---------|----------|
| Styrene Content     | 23.5 % | 23.5 %  | Bound    |

| Descriptive Properties | Value           | Comments          |
|------------------------|-----------------|-------------------|
| Color                  | Dark Brown Bale |                   |
| Components             | HAF             | 68.75, ASTM D3185 |
|                        | SBR 1739        | 137.5, ASTM D3185 |

| Descriptive Properties | Stearic Acid Value | 1, ASTM D3185 Comments |
|------------------------|--------------------|------------------------|
|                        | Sulfur             | 1.75, ASTM D3185       |
|                        | TBBS               | 1.38, ASTM D3185       |
|                        | ZnO                | 3, ASTM D3185          |
| Oil Analysis           | 0.273              |                        |
| Organic Acid           | 0.05               |                        |
| Soap                   | 0.001              |                        |

## Contact Songhan Plastic Technology Co.,Ltd.

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