



SSBR-4430 Polymer Data

|                       |  |
|-----------------------|--|
| Polymerization System | Solution Polymerization, styrene butadiene random copolymer                  |
| Stabilizer            | Non-staining   |
| Characteristics       | Superior processing, High strength, better resilience and rolling resistance |
| Use                   | High performance tire tread, Industry, sports and other compounding goods    |

| <u>Polymer Properties</u>             | <u>Specification Range</u> |            | <u>Test Method</u> |
|---------------------------------------|----------------------------|------------|--------------------|
|                                       | <u>min</u>                 | <u>max</u> |                    |
| Mooney Viscosity, ML <sub>1+4</sub> * | 50                         | 70         | ASTM D-1646        |
| Bound Styrene (%)                     | 38.5                       | 41.5       | K62-TPPC-21        |
| 1,2-Vinyl** (%)                       | 52.0 typical               |            | K62-TPPC-21        |
| Volatile matter (%)                   | ----                       | 1.0        | K62-TPFP-01        |
| Ash (%)                               | ----                       | 0.5        | ASTM D-5667        |
| Oil content (%)                       | 25.8                       | 28.8       | ASTM D-5774        |

\*ML<sub>1+4</sub>, 100°C, Massed  
\*\*Vinyl content in Butadiene

| <u>COMPOUND PROPERTIES</u> | Curing @145°C |                       |     | <u>Test Method</u> |            |
|----------------------------|---------------|-----------------------|-----|--------------------|------------|
| Tensile Strength           | 35'           | (kg/cm <sup>2</sup> ) | 80  | ----               | ASTM D-412 |
| Elongation                 | 35'           | (%)                   | 300 | ----               | ASTM D-412 |
| 300% Modulus               | 35'           | (kg/cm <sup>2</sup> ) | 40  | ----               | ASTM D-412 |

| <u>Test Recipe</u> | <u>Parts</u> |
|--------------------|--------------|
| SSBR-4430          | 137.5        |
| N330               | 68.75        |
| S.A                | 1            |
| ZnO                | 3            |
| CZ                 | 1.38         |
| S                  | 1.75         |
| Total              | 213.4        |

