



BR-0150L Polymer Data

|                       |   |
|-----------------------|---|
| Polymerization System | -- Solution Polymerization  |
| Catalyst              | -- Ziegler Cobalt Type  |
| Configuration         | -- 96% cis minimum  |
| Stabilizer            | -- Non-staining   |
| Specific gravity      | -- 0.91   |
| Characteristics       | -- High linearity   |
|                       | -- Excellent abrasion resistance  |
|                       | -- Low heat build-up  |
|                       | -- Good low temperature properties  |
|                       | -- High resilience  |
|                       | -- Good extrusion properties  |
|                       | -- Low hysteresis   |
| Application           | -- Mainly for tires, hoses, footwear, belts, golf ball, bouncing ball and industrial goods. |

**Specification Values**

| <u>POLYMER PROPERTIES</u>                 | <u>minimum.</u> | <u>maximum</u> | <u>Test Method</u> |
|---|-----------------|----------------|--------------------|
| Mooney Viscosity, ML <sub>1+4</sub> 100°C | 38              | 48             | ASTM D-1646        |
| Volatile Matter (%)                       | -----           | 0.5            | ASTM D-5668        |
| Ash (%)                                   | -----           | 0.2            | ASTM D-5667        |

**COMPOUND PROPERTIES (Test Recipe ASTM D-3189; Cure @ 145°C)**

| Compound Mooney Viscosity |                           |       |       |             |
|---------------------------|---------------------------|-------|-------|-------------|
|                           | ML <sub>1+4</sub> 100°C   | ----- | 75    | ASTM D-1646 |
| Tensile Strength          | 35' (kg/cm <sup>2</sup> ) | 130   | ----- | ASTM D-412  |
| Elongation                | 35' (%)                   | 300   | ----- | ASTM D-412  |
| 300% Modulus              | 25' (kg/cm <sup>2</sup> ) | 80    | 120   | ASTM D-412  |
|                           | 35' (kg/cm <sup>2</sup> ) | 90    | 130   | ASTM D-412  |
|                           | 50' (kg/cm <sup>2</sup> ) | 90    | 130   | ASTM D-412  |





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| <b><u>Test Recipe, ASTM D-3189</u></b> | <b><u>Parts</u></b> |
|--|---------------------|
| Taipol BR-0150L                        | 100.00              |
| HAF black (IRB#9)                      | 60.00               |
| ASTM Type 103 Petroleum Oil            | 15.00               |
| Zinc Oxide                             | 3.00                |
| Stearic Acid                           | 2.00                |
| TBBS                                   | 0.90                |
| <u>Sulfur</u>                          | <u>1.50</u>         |
| <b>Total</b>                           | <b>182.40</b>       |

