



BR-015H (For tire application, compounding goods etc.) Polymer Data

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

| <u>POLYMER PROPERTIES</u>                 | <u>Specification Values</u> |                | <u>Test Method</u> |
|---|-----------------------------|----------------|--------------------|
|   | <u>minimum.</u>             | <u>maximum</u> |                    |
| Mooney Viscosity, ML <sub>1+4</sub> 100°C | 37                          | 47             | 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> ) | 120   | ----- | ASTM D-412  |
| Elongation                | 35' (%)                   | 300   | ----- | ASTM D-412  |
| 300% Modulus              | 25' (kg/cm <sup>2</sup> ) | 65    | 105   | ASTM D-412  |
|                           | 35' (kg/cm <sup>2</sup> ) | 75    | 115   | ASTM D-412  |
|                           | 50' (kg/cm <sup>2</sup> ) | 80    | 120   | ASTM D-412  |





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| <u>Test Recipe, ASTM D-3189</u> | <u>Parts</u> |
|---------------------------------|--------------|
| Taipol BR-015H                  | 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         |
| Sulfur                          | 1.50         |
| Total                           | 182.40       |

