

# SABIC<sup>®</sup> BR 4610

POLYBUTADIENE RUBBER

## DESCRIPTION

BR 4610 is a high cis-1,4 Polybutadiene rubber stabilized with a non-staining antioxidant. BR 4610 is manufactured by solution polymerization process using stereo-specific Nickel catalyst system to control microstructure and Molecular weight distribution and provides a highly linear polymer

## TYPICAL PROPERTY VALUES

Revision 20181120

| PROPERTIES                                       | TYPICAL VALUES           | UNITS  | TEST METHODS |
|--|--------------------------|--------|--------------|
| <b>CHARACTERISTIC</b>                            |                          |        |              |
| Appearance                                       | Off-white to light amber | Visual | Visual       |
| <b>POLYMER PROPERTIES</b>                        |                          |        |              |
| Mooney viscosity (ML 1+4 @100 °C) <sup>(1)</sup> | 46                       | MU     | ASTM D1646   |
| Volatiles  | 0.50                     | % max  | ASTM D5668   |
| Organic acid                                     | 0.775                    | %      | ASTM D5774   |
| Ash Content                                      | 0.25                     | % max  | ASTM D5667   |
| Cis 1,4 Content <sup>(2)</sup>                   | 96                       | % min  | SABIC method |

(1) +/-5

(2) Typical values; not to be construed as specification limits.

## CHARACTERISTICS

BR 4610 is a medium Mooney grade generally used in blend with other elastomers and is designed for: excellent abrasion resistance, excellent flex cracking resistance, excellent resilience, good low temperature

## APPLICATIONS

Tire tread, sidewall and carcass, conveyor belt coverings, shoe sole, hoses and tube covers, mechanical and sporting goods

## STORAGE AND HANDLING

BR 4610 is packed in returnable or non-returnable metal crates consisting of 36 bales, weighing approximately 1.26 tons net. The individual bale weighs 35+/-1 kg, and is wrapped in Low-density polyethylene films. The product should be stored in its original packing at ambient temperature in dry conditions away from heat, ultraviolet light and direct sun light. Under suitable storage conditions, the product is stable for 24 months from the date of manufacture. Inappropriate storage conditions may lead to quality deterioration such as color, viscosity change etc. that could result in inadequate product performance.

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