



# Ravaflex™ BIIR

Rubber – Industrial Quality Compound

## OVERVIEW

|                        |  |
|------------------------|--|
| <b>Description</b>     | Ravaflex™ BIIR is a reprocessed brominated copolymer of isobutylene and isoprene.  |
| <b>Characteristics</b> | Ravaflex™ Bromobutyl is produced by carefully combining selected feedstocks for uniform viscosity and rheology. Ravaflex™ BIIR has very good low gas permeability and resistance to oxidative and ozone degradation. These characteristics make it an excellent choice in applications such as inner liners, mechanical goods, sealants and adhesives. |

## RAW MATERIAL PROPERTIES

| Property                                       | Nominal Value | Unit              | Test Method     |
|--|---------------|-------------------|-----------------|
| Mooney Viscosity <sup>(1)</sup> (ML 1+8@125°C) | 25 - 45       | MU                | ASTM D1646      |
| Bromine Content                                | 1.4 min.      | wt. %             | Internal Method |
| Moisture Content                               | 1.0 max.      | wt. %             | Internal Method |
| Ash Content                                    | 1.0 max.      | wt. %             | ASTM D5667      |
| Density  | 0.93          | g/cm <sup>3</sup> | ASTM D297       |
| Antioxidant                                    | Nonstaining   |                   |                 |

## SUPPLY FORM

- 34 kg ± 1 kg (75 lbs ± 2 lbs) bales wrapped in a low melt dispersible film.
- 36 bales stacked in 1 returnable metal crate. Units weigh 1.224 MT (≈ 2,700 lbs.)

## OTHER PRODUCT PROPERTIES

| Cure Characteristics <sup>(2)(3)</sup> | Value      | Unit | Test Method |
|--|------------|------|-------------|
| Max. Torque (M <sub>H</sub> )          | 5.5 - 9.5  | dN•m | ASTM D5289  |
| Min. Torque (M <sub>L</sub> )          | 1.9 - 3.1  | dN•m | ASTM D5289  |
| Scorch Time (Ts1)                      | 1.8 - 4.0  | min  | ASTM D5289  |
| 50% Cure Time (t'50)                   | 2.0 - 8.0  | min  | ASTM D5289  |
| 90% Cure Time (t'90)                   | 4.5 - 15.0 | min  | ASTM D5289  |

The data and information contained herein are typical average values, based on our current level of knowledge and experience, and do not constitute sales specifications. No liability, warranty or guarantee of product performance is created by this document. Ravago industrial quality compounds are totally or partially produced with non-prime quality ingredients. Even though the selection of the raw materials, the production and the quality control is being done following to the common best practices, it is the buyer's responsibility to inspect and test our products in order to determine the suitability for the buyer's application.

(1) Mooney viscosity testing in accordance with ASTM D1646, un-massed sample.

(2) Rheometer testing in accordance with ASTM D5289. MDR Rheometer test conditions at 160°C, 40 min, .5° Arc.

(3) Characteristics determined on a standard compound formulation; in accordance with ASTM D3958. Ravaflex™ BIIR - 100; IRB - 40, Zinc Oxide - 5, Stearic Acid - 1.