SABIC® BR 4010

POLYBUTADIENE RUBBER

DESCRIPTION

SABIC® BR 4010 is a high cis-1,4 Polybutadiene rubber stabilized with a non-staining antioxidant. SABIC® BR 4010 is manufactured by solution polymerization process using stereo-specific Nickel catalyst system to control microstructure, Molecular weight and Molecular weight distribution. Polymer macrostructure of SABIC® BR 4010 has been modified from linear to branched without altering the high cis microstructure that provide good storage stability.

TYPICAL PROPERTY VALUES

Revision 20181120

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
CHARACTERISTIC			
Appearance	Off white to amber	Visual	Visual
POLYMER PROPERTIES			
Mooney viscosity (ML 1+4 @100 °C) (1)	40	MU	ASTM D1646
Volatiles	0.50	% max	ASTM D5668
Extractables	1.65	%	ASTM D5774
Organic acid	0.775	%	ASTM D5774
Ash Content	0.25	% max	ASTM D5667
Cis 1,4 Content (2)	96	% min	SABIC method

(1) +/-5

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

CHARACTERISTICS

BR 4010 is a low Mooney grade generally used in blend with other elastomers and is designed for: good abrasion resistance, excellent flex cracking resilience, good low temperature properties, low cold flow property, excellent filler dispersion and shorter mixing cycles, low die-swell and good dimensional control.

APPLICATIONS

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

STORAGE AND HANDLING

BR 4010 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.

DISCLAIMER