

SABIC® BR 4010

High Cis Polybutadiene Rubber

Saudi Basic Industries Corporation (SABIC)

Message:

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.

Characteristics.

SABIC® 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

Appearance: off white to amber

Typical applications.

Tire tread, sidewall and carcass

Conveyor belt coverings

Shoe sole, hoses and tube covers

Mechanical and sporting goods

Please take notice of specific storage and handling conditions.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information	
Additive	Antioxidation
Features	Low viscosity
	Lower die-out expansion
	Antioxidation
	Good cracking resistance
	Good wear resistance
	Low temperature resistance
	Branched polymer structure
Uses	Tires
	Conveyor accessories
	Composite
	Pipe
	Mixing
	Sporting goods
	Footwear
Appearance	Amber
	White-like

Processing Method	Composite		
Physical	Nominal Value	Unit	Test Method
Mooney Viscosity (ML 1+4, 100°C)	40	MU	ASTM D1646
1,4-cis Content	> 96.0	wt%	Internal method
Extractables	1.7	wt%	ASTM D5774
Organic Acid	0.8	wt%	ASTM D5774
Ash Content		wt%	ASTM D5667
Volatiles		wt%	ASTM D5668

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