

# SIBUR Synthetic Rubber BR-1243 Nd Grade B

High Cis Polybutadiene Rubber

SIBUR, LLC

Message:

Synthetic polybutadiene rubber BR-1243 Nd is a product of polymerization of butadiene in solution in the presence of rare-earth metal-base catalysts with addition of an antioxidant, which contains at least 96% of 1,4-cis-bonds. The polymer contains no nitrosamines or substances that may be a source of nitrosamines.

Product characteristics: Appearance - bale of white to light-yellow color; weight of a bale - (30 ± 1) kg; packing - a metal container, a plastic container; shelf life - one (1) year since the date of manufacture.

General Information			
Additive	Antioxidant 2		
Appearance	White		
Forms	Bale		
Physical	Nominal Value	Unit	Test Method
Mooney Viscosity (ML 1+4, 100°C)	39 to 49	MU	ASTM D1646
Ash Content	< 0.70	%	ASTM D5667
Volatile Matter	< 0.80	%	ASTM D5668
Rheometer MDR 2000 <sup>1</sup>			ASTM D5289
Maximum Torque (MH) : 160°C	16.4 to 22.0	dNm	
Minimum Torque (ML) : 160°C	2.40 to 3.80	dNm	
Prevulcanization start time (ts1) : 160°C	2.3 to 4.5	min	
Time to 50% vulcanization (T'50) : 160°C	5.5 to 8.5	min	
Time to 90% vulcanization (T'90) : 160°C	9.0 to 13.0	min	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	11.0	MPa	ASTM D3189
Tensile Strength (Yield)	16.8	MPa	ASTM D3189
Tensile Elongation (Break)	360	%	ASTM D3189
NOTE			

1. deformation of 0.5°, MH at 30 min

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