

SIBUR Synthetic Rubber BR-1203 Ti Grade C

High Cis Polybutadiene Rubber

SIBUR, LLC

Message:

Polybutadiene synthetic rubber BR-1203 Ti (at least 90% of 1,4-cis-bonds) is essentially a polymerization product of butadiene in solution. The polymer contains no nitrosamines and substances that may become 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 1		
Appearance	White		
Forms	Bale		
Physical	Nominal Value	Unit	Test Method
Mooney Viscosity (ML 1+4, 100°C)	47 to 55	MU	ASTM D1646
Ash Content	< 0.30	%	ASTM D5667
Volatile Matter	< 0.80	%	ASTM D5668
Rheometer MDR 2000 ¹			ASTM D5289
Maximum Torque (MH) : 160°C	16.5 to 19.5	dNm	
Minimum Torque (ML) : 160°C	3.00 to 4.00	dNm	
Prevulcanization start time (ts1) : 160°C	1.8 to 3.2	min	
Time to 50% vulcanization (T'50) : 160°C	4.5 to 8.0	min	
Time to 90% vulcanization (T'90) : 160°C	8.0 to 10.5	min	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	9.30	MPa	ASTM D3189
Tensile Strength (Yield)	11.5	MPa	ASTM D3189
Tensile Elongation (Break)	360	%	ASTM D3189
NOTE			

1. deformation of 0.5°, MH at 30 min

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