

BR-1203 Ti

Synthetic polybutadiene rubber

Synthetic cis-butadiene rubber BR-1203 Ti is the polymerization product of butadiene in solution; in the presence of titanium catalyst; 1,4-cis – at least 90%. The polymer is stabilized with non-staining antioxidant and contains no nitrosamines or substances that may be a source of nitrosamines.

Appearance: bale from light to dark beige color; weight of a bale — (30 ± 1) kg

Package: PE wrapping film (Vicat softening point ≤ 95 °C); metal and plywood containers (1.26 MT) or cardboard 0,54 MT or plastic container 0,54 MT

Shelf life: 2 (two) years from the date of manufacture

Storage conditions: at the temperature not higher than 30 °C, in place protected from direct sunlight and atmospheric precipitation

Parameters	BR-1203 Ti grade B	Test method
Mooney viscosity UML ₁₊₄ (100 °C), UM	45 ± 4	ASTM D 1646
Volatile matter, % wt	≤0,8	ASTM D 5668
Ash, % wt	≤0,3	ASTM D 5667

Stress-strain properties in standard recipe on ASTM D 3189, 145 °C × 35 min.

Tensile stress at 300 % elongation, MPa	≥8,5	
Tensile strength, MPa	≥11,0	ASTM D 412
Ultimate elongation, %	≥360	

Curing characteristics of rubber compound: Rheometer MDR 2000, measurement conditions: 160 °C, deformation of 0.5°, MH at 30 min.

Minimum torque (ML), dNm	2,7–3,7	
Maximum torque (MH), dNm	16,0–20,0	
Scorch time (ts'1), min.	1,8–3,2	ASTM D 5289
Time to 50 % of full cure (t'50), min.	4,5–8,0	
Time to 90 % of full cure (t'90), min.	8,0–12,0	

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