

BR-1243 Nd F

Polybutadiene rubber

Synthetic cis-butadiene functionalized rubber BR-1243 Nd F is the polymerization product of butadiene in solution in the presence of neodymium catalyst; 1,4-cis — at least 97%; polydispersity — not more 2.6. The polymer is stabilized by non-staining antioxidant and contains no nitrosamines or substances that may be a source of nitrosamines.

Appearance: bale of white to beige color; weight of a bale — (30 ± 0.6) kg

Package: PE wrapping film (Vicat softening point ≤95 °C); metal container 1.26 MT or plastic container 0.45 MT

Shelf life: 1 (one) year since 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-1243 Nd F grade A	BR-1243 Nd F grade B	Test method
Mooney viscosity UML ₁₊₄ (100 °C), UM	44 ± 5	47 ± 5	ASTM D 1646
Volatile matter, % wt	≤0.8	≤0.75	ASTM D 5668
Ash, % wt	≤0.7	≤0.7	ASTM D 5667

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

Tensile stress at 300 % elongation, MPa	≥9.0	
Tensile strength, MPa	≥16.8	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	2.4–3.8	
Maximum torque (MH), dNm	16.4–22.0	
Scorch time (ts'1), min.	2.3–4.5	ASTM D 5289
Time to 50 % of full cure (t'50), min.	5.5–8.5	
Time to 90 % of full cure (t'90), min.	9.0–13.0	

Technical support service: techservice@sibur.ru

Issue: **24-September-2019**

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