

# SBR-1500

## Synthetic styrene-butadiene rubber

Synthetic rubber SBR-1500 is styrene (23.5%) and butadiene (76.5%) copolymer obtained by cold emulsion polymerization using the soaps of resin and fatty acids. The polymer is stabilized with non-staining antioxidant and contains no nitrosamines and substances that may become a source of nitrosamines.

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

**Package:** PE wrapping film (Vicat softening point ≤95 °C); metal and plywood containers (1.26 MT), cardboard box (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	SBR-1500		Test method
	grade B	grade C	
Mooney viscosity MML <sub>1+4</sub> (100 °C), UM	51 ± 5	53 ± 5	ASTM D 1646
Organic acids, % wt	5,0–7,0	5,0–7,0	ASTM D 5774
Organic acids soap, % wt	≤0,30	≤0,30	ASTM D 5774
Bound styrene, % wt	23,5 ± 1,0	23,5 ± 1,0	ASTM D 5775
Volatile matter, % wt	≤0.8	≤0.8	ASTM D 5668
Ash, % wt	≤0.5	≤0.5	ASTM D 5667

### Stress- strain properties (ASTM D 3185, method 1A) , 145 °C × 35 min.

Tensile stress at 300 % elongation, MPa	≥13,0	≥13,0	
Tensile strength, MPa	≥22,5	≥22,5	ASTM D 412
Ultimate elongation, %	≥420	≥420	

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

Minimum torque (ML), dNm	1,8–3,0	1,8–3,0	
Maximum torque (MH), dNm	15,0–21,0	15,0–21,0	
Scorch time (ts'1), min.	2,2–4,5	2,2–4,5	ASTM D 5289
Time to 50 % of full cure (t'50), min.	6,5–11,5	6,5–11,0	
Time to 90 % of full cure (t'90), min.	12,0–20,0	12,0–20,0	

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