

# SBR 1783

## Synthetic styrene-butadiene rubber

Oil-filled styrene-butadiene synthetic rubber SBR-1783 SRAE is styrene (23.5%) and butadiene (76.5%) copolymer isobtained by cold emulsion polymerization using the soaps of resin and fatty acids. The copolymer is stabilized with antioxidant of amine type and filled with oil SRAE (CAS #64741-88-4) with PAHs controlled content.

**Appearance:** bale of dark-brown color; weight of a bale —  $30 \pm 1$  kg

**Package:** PE wrapping film (Vicat softening point  $\leq 95$  °C); metal or plywood containers (1.26 MT)

**Shelf life:** 18 months since the date of manufacture  
**Storage conditions:** at the temperature not higher than 40 °C, in place protected from direct sunlight and atmospheric precipitation

Parameters	SBR 1783	Test method
Mooney viscosity MML <sub>1+4</sub> (100 °C), UM	46–54	ASTM D 1646
Organic acids, % wt	4,0–5,6	ASTM D 5774
Organic acids soap, % wt	$\leq 0,3$	ASTM D 5774
Bound styrene, % wt	22,5–24,5	ASTM D 5775
Solvent extract, % wt	30,0–36,0	ASTM D 5774
Oil, % wt	26–30	ASTM D 5774
Volatile matter, % wt	$\leq 0,6$	ASTM D 5668
Ash, % wt	$\leq 0,4$	ASTM D 5667

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

Tensile stress at 300 % elongation, MPa	$\geq 9,8$	
Tensile strength, MPa	$\geq 18,0$	ASTM D 412
Ultimate elongation, %	$\geq 380$	

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

Minimum torque (ML), dNm	1,4–3,0	
Maximum torque (MH), dNm	12,0–18,5	
Scorch time (ts'1), min.	3,8–5,8	ASTM D 5289
Time to 50 % of full cure (t'50), min.	6,0–9,0	
Time to 90 % of full cure (t'90), min.	11,5–15,5	

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