

# SSBR-2560 TDAE

## Synthetic styrene-butadiene rubber

Styrene-butadiene synthetic rubber SSBR-2560 TDAE is the copolymerization product of 1,3-butadiene with styrene in hydrocarbon solvent in the presence of organolithium compounds and it is filled with TDAE oil and stabilized with staining antioxidant. The polymer contains no nitrosamines and substances that may become a source of nitrosamines.

**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 containers (1.26 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	SSBR-2560 TDAE grade AA	Test method
Mooney viscosity UML <sub>1+4</sub> (100 °C), UM	50 ± 4	ASTM D 1646
1,2 units,%	61.0–67.0	based on method ISO 21561
Bound styrene, % wt	25.0 ± 1.0	based on method ISO 21561
Solvent extract, % wt	26.3–29.3	method of supplier
Volatile matter, % wt	≤0.8	ASTM D 5668
Ash, % wt	≤0.2	ASTM D 5667

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

Tensile stress at 300 % elongation, MPa	≥8.8	
Tensile strength, MPa	≥15.0	ASTM D 412
Ultimate elongation, %	≥350	

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

Minimum torque (ML), dNm	1.6–3.3	
Maximum torque (MH), dNm	10.0–18.0	
Scorch time (ts'1), min.	3.6–7.0	ASTM D 5289
Time to 50 % of full cure (t'50), min.	6.7–10.5	
Time to 90 % of full cure (t'90), min.	12.2–20.3	

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