

SSBR-2560 TDAE HV

Synthetic butadiene-styrene rubber

Butadiene-styrene synthetic statistical rubber SSBR-2560 TDAE is a polymerization product of 1,3-butdiene with styrene in hydrocarbon solvent in the presence of anionic initiating agent. Polymer is TDAE oil extended 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 ± 1) kg

Package: PE wrapping film (Vicat softening point ≤95 °C); metal container 1.26 Mt

Shelf life: 1 (one) year 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 HV grade A	Test method
Mooney viscosity UML ₁₊₄ (100 °C), UM	56–64	ASTM D 1646
1,2 units,%	56–70	based on method ISO 21561
Bound styrene, % wt	25 ± 2	based on method ISO 21561
Solvent extract, % wt	25–30	method of supplier
Volatile matter, % wt	≤0,8	ASTM D 5668
Ash, % wt	≤0,3	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, measurement conditions: 160 °C, deformation of 0.5°, MH at 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	

Technical support service: techservice@sibur.ru

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