

Technical Data Sheet

Styrene-butadiene-styrene block copolymer (SBS Linear)

Description Linear styrene-butadiene thermoplastic elastomer SBS Linear is essentially a product of styrene and butadiene block polymerization in hydrocarbon solution in the presence of alkyl lithium catalyst. SBS Linear is dusted with calcium stearate or amorphous silica. It is containing a non-staining stabilizer. Crumbs or powder white to light-beige color.

Application Bitumen modification for roofing materials, plastic modification, in compounds for shoes, general mechanical rubber goods, in mastics and protective coatings.

Specifications

Parameter	Value	Test Method
Toluene solution viscosity 5,23% / 25 °C, cSt	14±5	ASTM D 445
Volatile matter content, % wt	≤ 0,8	ASTM D 5668
Ash content, % wt: a) calcium stearate b) silica	≤ 0,3 ≤ 1,2	ASTM D 5667
Content of bound styrene, % wt	30±1,5	Method of supplier
Melt flow index, 190°C/ 5 kg, g/10 min	< 1	Method of supplier
Tensile strength, MPa	≥ 14,7	ASTM D 412
Tensile stress at 300 % elongation, MPa	≥ 2,7	ASTM D 412
Ultimate elongation, %	≥ 700	ASTM D 412
Hardness, Shore A	80±3	ASTM D 2240

Packaging Soft bag-container (big bag) on pallet; net weight 500, 800 or 900 kg.

Storage and transportation Material should be covered and stored in a cool, dry, and well-ventilated place at a temperature below 40 °C. Proper care needs to be taken so that the material does not get exposed to direct sunlight, ultraviolet light, or rainwater. For prolonged storage, it is recommended to cover the material with black polythene film to protect it from direct sunlight. Under proper storage conditions as described above, the product shelf life of SBS Linear grade is 12 months from the date of manufacturing.