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Technical Data Sheet

Product: SBR-1502

In compliance with regulation (EC) № 1907/2006

Description

The synthetic butadiene-alpha-methylstyrene (styrene) rubber is produced by emulsion copolymerization of butadiene with alpha-methylstyrene (styrene) at low temperatures with an emulsifier. AO-6 (polyguard) is used as an antioxidant.

Application

The SBR-1502 is designed to be used in the tire, mechanical rubber, and footwear industry.

Specifications

Parameter	Value	Test Method
Mooney viscosity MML 1+4 (100°C)	48-58	ASTM D 1646
Mooney viscosity lot spread, max	8	-
Mass fraction of volatile matters, %, max.	0,8	ASTM D 5668
Mass fraction of Ash, %, max.	0,5	ASTM D 5667
Mass fraction of organic acids, %	5,0-7,0	ASTM D 5774
Mass fraction of organic acids soaps, %	0,30	
Mass fraction of second bound monomer, % (alphamethylstyrene)	22,0 – 25,0	ASTM D 5775
Vulcanization characteristics (rotorless rheometer of the type MDR-2000 (ASTM D 3185, method A)		
Minimum torque, ML,dNm	1,8 – 3,0	ASTM D 5289
Maximum torque, MH, dNm	15,0 – 21,0	
Vulcanization start time, ts1, min	2,2 – 4,5	
Time to reach 50% degree of vulcanization, t50, min	7,0 – 12,0	
Time to reach 90% degree of vulcanization, t90, min	13,0 – 21,0	
Elastic and strength properties of rubbers under elongation (in optimum vulcanization)		
Modulus at 300% elongation, MPa, min. 2nd group	13,0	ASTM D 412
Conditional tensile strength, MPa, min. 2nd group	22,5	
Relative elongation at break, %, min. 2nd group	420	

Packaging

The SBR-1502 is produced in the form of bales about 30 kg each, wrapped in polyethylene film. Packed in universal plywood containers (UPC). (See appendix)

Storage and transportation

Rubber is stored indoors at a temperature not higher than +30 °C. During storage, the rubber must be protected from contamination, direct sunlight, and precipitation.

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Universal Plywood Container (UPC)

Characteristics:

- The plywood box is equipped with a laminated polypropylene fabric cover for cargo safety;
- The box is folding with a removable wall for easy unloading;
- Metal elements ensure container durability;
- The box is assembled manually without the need to use auxiliary materials or tools.

Parameters:

Tare Weight: 70 kg (± 5 kg)

Net weight: 1,260 kg (42 briquettes)

Gross Weight: 1,330 kg (42 briquettes)