

SBR 1500

Cold Polymerized Emulsion Styrene Butadiene Rubber (SBR)

Description

SBR 1500 is a cold polymerized, 23.5% styrene staining type SBR made with a mixed acid emulsifier, staining stabilizer and salt acid coagulation.

SBR 1500 exhibits appreciably higher physical properties than can be obtained with most hot rubbers. It has more tack due to the rosin acid emulsifying system employed during polymerization. This characteristic provides easier processing properties and better cohesion between a rubber to rubber interface.

Due to the staining stabilizer, it can be used only in applications where color is of secondary importance.

End Use

End uses include production of tires, molded and extruded mechanical goods.

Features

- Light tan to brown color
- High processability compared to natural rubber
- Easy vulcanization and stable scorch properties
- Exhibits better abrasion, higher tensile strength and higher modulus than corresponding hot rubbers

Packing

- 35 kg bales
- 30 bales per crate (1.05 MT)

Origin

Producer: LG Chemical
Country: South Korea

Raw Polymer: Chemical Analysis

Property	Unit	Typical	Specification
Bound Styrene	%	23.5	23.5 target
Volatile Matter	%	0.5	0.5 max
Ash	%	0.2	1.5 max
Organic Acid	%	6.1	-
Specific Gravity		0.94	-
Mooney Viscosity*	ML ₁	52	-

* ML 1+4 (100°C)

Test Compound Properties

Property	Unit	Typical	Test Method
Tensile	kg/cm ²	290	ASTM D412*
Elongation	%	520	ASTM D412*
300% Modulus	kg/cm ²	160	ASTM D412*
ts1	min	4.0	ASTM D2084**
t'90	min	17.0	ASTM D2084**

* Cure: 35 minutes at 145°C

** 160°C, 1°Arc

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