

# SBR 1502

## Cold Polymerized Emulsion Styrene Butadiene Rubber (SBR)

### Description

SBR 1502 is a cold polymerized, 23.5% styrene SBR polymer made with a mixed-acid emulsifier, non-staining stabilizer, and salt-acid coagulation.

SBR 1502 exhibits the excellent tensile strength, abrasion resistance, flexibility and recovery properties that are characteristic of "cold" rubbers. This non-staining, non-discolouring polymer offers a complete range of bright, colourful stocks capable of satisfying requirements in a variety of products.

### End Use

End uses include white sidewall tires, footwear, light and dark coloured mechanical goods and miscellaneous items where excellent physical properties and minimum discoloration and staining are required.

### Features

- Light tan colour
- Excellent tensile strength
- High abrasion and tear resistance
- High processability compared to natural rubber
- Easy vulcanization and stable scorch properties

### Packing

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

### Origin

Producer: Kumho

### Raw Polymer: Chemical Analysis

Property	Unit	Typical	Specification
Bound Styrene	%	23.5	23.5 target
Volatile Matter	%	0.3	0.5 max
Ash	%	0.2	1.0 max
Organic Acid	%	5.8	-
Specific Gravity		0.94	-
Mooney Viscosity*	ML <sub>1</sub>	52	-

\* ML 1+4 (100°C)

### Test Compound Properties

Property	Unit	Typical	Test Method
Tensile	kg/cm <sup>2</sup>	300	ASTM D412*
Elongation	%	470	ASTM D412*
300% Modulus	kg/cm <sup>2</sup>	185	ASTM D412*
ts1	min	2.5	ASTM D5289**
t'50	min	8.7	ASTM D5289**
t'90	min	16.5	ASTM D5289**

\* Cure: 35 minutes at 145°C

\*\* 160°C, 1°Arc

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