

SBR 1502

Natural and Synthetic Rubber, Since 1885

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 ₁ | 52 | - |

* ML 1+4 (100°C)

Test Compound Properties

| Property | Unit | Typical | Test Method |
|--------------|--------------------|---------|--------------|
| Tensile | kg/cm ² | 300 | ASTM D412* |
| Elongation | % | 470 | ASTM D412* |
| 300% Modulus | kg/cm ² | 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