

# SBR 1712

## Cold Polymerized Emulsion Styrene Butadiene Rubber (SBR)

### Description

SBR 1712 is a cold polymerized, 23.5% styrene staining type SBR, extended with 37.5 parts of highly aromatic oil. Raw materials for this elastomer are carefully chosen to produce the best physical properties and processing characteristics at economical cost.

The aromatic oil used is an efficient plasticizer for high molecular weight SBR and results in superior physical and processing properties compared to other oil-extended rubbers.

### End Use

Application possibilities for SBR 1712 include tire and mechanical goods compounds where color and staining are not decisive factors.

### Features

- Dark brown colour
- High abrasion resistance
- Easy vulcanization and stable scorch properties
- Excellent processability compared to natural rubber)

### Packing

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

### Origin

Producer: Kumho  
Country: South Korea

### Raw Polymer: Chemical Analysis

Property	Unit	Typical	Specification
Bound Styrene	%	23.5	23.5 target
Volatile Matter	%	0.2	0.5 max
Ash	%	0.2	1.0 max
Organic Acid	%	5.0	-
Specific Gravity		0.95	-
Mooney Viscosity*	ML <sub>1</sub>	49	-

\* ML 1+4 (100°C)

### Test Compound Properties

Property	Unit	Typical	Test Method
Tensile	kg/cm <sup>2</sup>	245	ASTM D412*
Elongation	%	600	ASTM D412*
300% Modulus	kg/cm <sup>2</sup>	105	ASTM D412*
ts1	min	5.2	ASTM D5289**
t'50	min	9.0	ASTM D5289**
t'90	min	15.0	ASTM D5289**

\* Cure: 35 minutes at 145°C

\*\* 160°C, 1°Arc

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