



Lion Elastomers LLC

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## SBR 1507 Elastomer

## Product Data

SBR 1507 offers the lowest Mooney viscosity of all SBR 1502 type elastomers. It is a light-colored, general purpose, cold SBR elastomer. It enables a maximum filler loading in rubber applications.

### Unique Features

- ▶ Cold polymerized styrene-butadiene elastomer
- ▶ Lowest Mooney viscosity and light color

### Applications

- ▶ Mechanical rubber goods requiring high filler loading
- ▶ Household products such as floor tiles

### Typical Properties

<u>Property</u>	<u>Test Method*</u>	<u>Typical</u>
Mooney viscosity, MML 1+4 (100°C) .....	—	28 - 42
Bound Styrene, Weight % .....	—	22.5 – 24.5
Organic acid, Weight % .....	—	4.9 – 7.1
Soap, Weight % .....	—	0.5 Max.
Ash, Weight % .....	—	0.70 Max.
Volatile matter, Weight % .....	ZS 1008K	0.75 Max.
Emulsifier .....	—	Mixed acid
Coagulant .....	—	Acid
Stabilizer .....	—	Non-staining
Specific gravity, g/cc (bale).....	ASTM D-792	0.94
Physical form**, lbs/bale .....	—	80.0 (36 kg)

**SBR 1507 elastomer is a lower Mooney viscosity, light-colored, general-purpose cold SBR recommended for household products and mechanical rubber goods, especially when high filler loading is required.**

\* Company Test Methods

\*\* This product is available in 80 lb rectangular bales individually wrapped in 1.5 mil, low melting point film and shipped in cardboard containers.

**Note:** Antioxidant is added to this polymer to provide protection during manufacture and storage. The end user's process may require additional antioxidant protection.

## **SBR 1507 Elastomer**

### **Rheometric Properties (MDR 2000 rheometer)**

<b><u>Property</u></b>	<b><u>Result</u></b>
M <sub>L</sub> lbf-in .....	0.6 – 2.6
dN-m .....	0.7 – 2.9
M <sub>H</sub> lbf-in .....	15.3 – 19.3
dN-m .....	17.3 – 21.8
t <sub>s</sub> 1, minutes .....	3.6 – 5.6
t' 50, minutes .....	7.0 – 11.0
t' 90, minutes .....	13.4 – 18.4

<b><u>MRG Test Recipe (ASTM 3185 1A)</u></b>	<b><u>Weight</u></b>	<b><u>Reference Material</u></b>
SBR 1507 elastomer .....	100.0	
Zinc oxide .....	3.0	IRM 91A
Sulphur .....	1.75	NIST SRM 371
Stearic acid .....	1.0	NIST SRM 372
Oil furnace black .....	50.0	IRB #8
TBBS .....	1.0	NIST RM 8384

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