



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)	ASTM D 1646	28 - 42
Bound Styrene, Weight %	ASTM D 5775	22.5 – 24.5
Organic acid, Weight %	ASTM D 5774	4.9 – 7.1
Soap, Weight %	ASTM D 5774	0.5 Max.
Ash, Weight %	ASTM D 5667	0.70 Max.
Volatile matter, Weight %	ASTM D 5668	0.75 Max.
Emulsifier	—	Mixed acid
Coagulant	—	Acid
Stabilizer	—	Non-staining
Specific gravity, g/cc (bale).....	—	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.

* 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.

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Rheometric Properties (MDR 2000 rheometer)

Test Method – ASTM D5289**

<u>Property</u>	<u>Result</u>
M _L lbf-in	0.6 – 2.6
dN-m	0.7 – 2.9
M _H lbf-in	15.3 – 19.3
dN-m	17.3 – 21.8
t _s 1, minutes	3.6 – 5.6
t' 50, minutes	7.0 – 11.0
t' 90, minutes	13.4 – 18.4

<u>Test Formula (ASTM D 3185 1A)</u>	<u>Quantity, Parts by Mass</u>	<u>Material</u>
SBR 1507 elastomer	100.00	
Zinc oxide	3.00	IRM 91A
Sulfur	1.75	IRM 031
Stearic acid	1.00	IRM 021
Oil furnace black	50.0	IRB #8
TBBS	1.00	IRM 003

** 160°C, 1°Arc

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