



Lion Elastomers LLC

1615 Main Street • P.O. Box 667 • Port Neches, TX 77651
800 / 535-9960 • www.lionelastomers.com

SBR 1502L Elastomer

Product Data

SBR 1502L is a lower viscosity version of SBR 1502. It is a light-colored, general purpose cold SBR elastomer which provides the maximum in physical properties along with excellent color characteristics.

Unique Features

- ▶ Cold polymerized styrene-butadiene elastomer
- ▶ Lower viscosity than SBR 1502
- ▶ Lighter color and FDA 21 CFR §177.2600 compliant

Applications

- ▶ Calendered soles
- ▶ Household products such as floor tiles
- ▶ Mechanical rubber goods

Typical Properties

<u>Property</u>	<u>Test Method</u>	<u>Typical</u>
Mooney viscosity, MML 1+4 (100°C)	ASTM D1646	36 - 46
Bound Styrene, Weight %	ASTM D 5775	22.5 – 24.5
Organic acid, Weight %	ASTM D5774	4.9 – 7.1
Soap, Weight %	ASTM D5774	0.5 Max.
Ash, Weight %	ASTM D5667	0.70 Max.
Volatile matter, Weight %	ASDM D5668	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 1502L elastomer is a light-colored, general-purpose cold SBR recommended for soles, household products, and mechanical rubber goods.

* This product is available in 80 lb rectangular bales individually wrapped in 1.5 mil, low melting point film and shipped in returnable aluminum OTD.

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	0.8 – 2.8
dN-m	0.9 – 3.2
M _H lbf-in	16.0 – 20.0
dN-m	18.1 – 22.6
t _s 1, minutes	3.6 – 5.6
t' 50, minutes	7.3 – 11.3
t' 90, minutes	13.4 – 18.4

<u>Test Formula (ASTM D3185 1A)</u>	<u>Quantity, Parts by Mass</u>	<u>Material</u>
SBR 1502L elastomer	100.00	
Zinc oxide	3.00	IRM 91A
Sulfur	1.75	IRM 031
Stearic acid	1.00	IRM 021
Oil furnace black	50.00	IRB #8
TBBS	1.00	IRM 003

** 160°C, 1°Arc

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