



Lion Elastomers LLC

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

## SBR 1502 Elastomer

## Product Data

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

### Unique Features

- ▶ Cold polymerized styrene-butadiene elastomer
- ▶ 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	46 - 58
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 % .....	ASTM 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 1502 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 metal bin.

**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 1502 Elastomer

### Rheometric Properties (MDR 2000 rheometer)

Test Method - ASTM D5289\*\*

<u>Property</u>	<u>Result</u>
M <sub>L</sub> lbf-in .....	0.8 – 2.8
dN-m .....	0.9 – 3.2
M <sub>H</sub> lbf-in .....	16.0 – 20.0
dN-m .....	18.1 – 22.6
t <sub>s</sub> 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

**SBR 1502 is a light-colored, general purpose cold SBR polymer. It provides the maximum in physical properties along with excellent color properties. It is recommended for general-purpose applications for soles, household products, and mechanical rubber goods. SBR 1502 complies with FDA 21 CFR §177.2600.**

**Notice:** All information supplied by or on behalf of Lion Elastomers LLC in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and believed reliable, but Lion Elastomers LLC assumes no liability whatsoever in respect of application, processing or use made of the aforementioned information or products, or any consequence thereof. The buyer undertakes all liability in respect of the application, processing or use made of the aforementioned information or product, whose quality and other properties he shall verify, or any consequence thereof. No liability whatsoever shall attach to Lion Elastomers LLC for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of the application, processing or use of the aforementioned information or products by the buyer.