



Lion Elastomers LLC

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## 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 - 56
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 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.

## **SBR 1502L Elastomer**

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

**Test Method - ASTM D5289\*\***

<b><u>Property</u></b>	<b><u>Result</u></b>
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

### **Test Formula (ASTM D3185 1A)**

<b><u>Test Formula (ASTM D3185 1A)</u></b>	<b><u>Quantity, Parts by Mass</u></b>	<b><u>Material</u></b>
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.**

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