



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 %	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 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**

<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

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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