



Lion Elastomers LLC

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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

Property	Test Method*	Typical
Mooney viscosity, MML 1+4 (100°C)	—	36 - 46
MSR	—	31 Max.
Bound Styrene, Weight %	—	22.5 – 24.5
Organic acid, Weight %	—	4.9 – 7.1
Soap, Weight %	—	0.5 Max.
Ash, Weight %	—	0.70 Max.
Volatile matter, Weight %	ZS 1008K	0.75 Max.
Emulsifier	—	Mixed acid
Coagulant	—	Acid
Stabilizer	—	Non-staining
Specific gravity, g/cc (bale).....	ASTM D-792	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.

* Company Test Methods

** 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)

<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>MRG Test Recipe (ASTM 3185 1A)</u>	<u>Weight</u>	<u>Reference Material</u>
SBR 1502L elastomer	100.0	
Zinc oxide	3.0	IRM 91A
Sulphur	1.75	NIST SRM 371
Stearic acid	1.0	NIST SRM 372
Oil furnace black	50.0	IRB #8
TBBS	1.0	NIST RM 8384

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