



Lion Elastomers LLC

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SBR 1712L Elastomer

Product Data

SBR 1712L is a general-purpose cold polymerized, oil-extended elastomer. It is a low Mooney viscosity version of SBR 1712. It has excellent processing properties and superior polymer stability.

Unique Features

- ▶ Cold polymerized styrene-butadiene elastomer
- ▶ Lower viscosity, Oil extended for improved processing

Applications

- ▶ Passenger & heavy-service treads
- ▶ Retread rubbers and bicycle tires
- ▶ Molded & extruded goods, and wire and cable

Typical Properties

<u>Property</u>	<u>Test Method*</u>	<u>Typical</u>
Polymer, parts	—	100
Oil, parts – Hi aromatic	—	37.5
Mooney viscosity, MML 1+4 (100°C)	—	30 - 40
Bound Styrene, Weight %	—	22.5 – 24.5
Organic acid, Weight %	—	4.0 – 6.0
Soap, Weight %	—	0.5 Max.
Ash, Weight %	—	0.70 Max.
Volatile matter, Weight %	ZS 1008K	0.75 Max.
Emulsifier	—	Mixed acid
Coagulant	—	Acid
Stabilizer	—	Staining
Specific gravity, g/cc (bale).....	ASTM D-792	0.95
Physical form**, lbs/bale	—	80.0 (36 kg)

SBR 1712L is recommended for such diverse applications as passenger and heavy-service treads, retread rubbers, bicycle tires, molded and extruded goods, automotive products, seals, hard rubber and wire and cable.

* 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 cardboard containers.

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	0.5 – 2.5
dN-m	0.6 – 2.8
M _H lbf-in	9.7 – 13.7
dN-m	11.0 – 15.5
t _s 1, minutes	4.4 – 6.4
t' 50, minutes	6.6 – 10.6
t' 90, minutes	11.7 – 16.7

MRG Test Recipe (ASTM 3185 2B)

	<u>Weight</u>	<u>Reference Material</u>
SBR 1712L oil-extended elastomer	137.5	
Zinc oxide	3.0	IRM 91A
Sulphur	1.75	NIST SRM 371
Stearic acid	1.0	NIST SRM 372
Oil furnace black	68.75	IRB #8
TBBS	1.38	NIST RM 8384

SBR 1712L is a lower Mooney viscosity, general-purpose cold polymerized, oil-extended elastomer. It has excellent processing properties and superior polymer stability. SBR 1712L is recommended for applications such as passenger and heavy-service treads, retread rubbers, bicycle tires, molded and extruded goods, automotive products, seals, hard rubber and wire and cable.

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