

Lion Elastomers LLC

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SBR 1606L Elastomer

Product Data

SBR 1606L is a carbon black master batch (CBMB) based on SBR 1500 latex and N-330 carbon black. It has a low level of oil extension and provides high tensile properties.

Unique Features

- Cold polymerized styrene-butadiene elastomer
- Carbon black master batch
- Low level extender oil

Applications

- Tire treading
- ► Conveyor belting and mechanical rubber goods

Typical Properties

<u>Property</u>	Test Method*	<u>Typical</u>
Carbon black, type, phr	N330	52
Carbon black, Weight %	5.16.02*	30.6 - 33.6
Oil type, phr	Highly Aromatic	10
Oil, Weight %	ASTM D5774	4.7 - 7.7
Mooney viscosity, UMS 4+4 (100°C)	ASTM D1646	37 - 57
Bound Styrene, Weight %	ASTM D5775	22.5 - 24.5
Organic acid, Weight %	ASTM D5774	3.1 – 5.1
Soap, Weight %	ASTM D5774	0.5 Max.
Ash, Weight %	ASTM D5667	0.50 Max.
Volatile matter, Weight %	ASTM D5668	0.75 Max.
Emulsifier	_	Rosin acid
Coagulant	_	Acid
Stabilizer	_	Staining
Specific gravity, g/cc (bale)	_	1.12
Physical form**, lbs/bale	_	90.0 (41 kg)

SBR 1606L is an oil extended, carbon black master batch SBR with 52 parts of N-330 carbon black. Low level extender oil provides high tensile properties in a variety of rubber goods such as tire treads, conveyor belts and mechanical rubber goods.

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^{*} Company Test Method

^{**} This product is available in 90 lb rectangular bales individually wrapped in 1.5 mil, low melting point film and shipped stretch wrapped on a wooden pallet. Bales are dipped. **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)

Test Method - ASTM D5289***

<u>Property</u>	Result
M∟ lbf-in	0.4 - 2.4
dN-m	0.5 - 2.7
M _H lbf-in	12.2 – 16.2
dN-m	13.8 – 18.3
t _s 1, minutes	4.4 - 6.4
t' 50, minutes	7.3 – 11.3
t' 90, minutes	12.6 – 17.6

Test Formula (ASTM D3186)	Quantity, Parts	<u>Material</u>
	by Mass	
SBR 1606L oil-extended, CBMB elastomer	162	
Zinc oxide	3.00	IRM 91A
Sulfur	1.75	IRM 031
Stearic acid	1.50	IRM 021
TBBS	1.25	IRM 003

^{***160°}C, 1°Arc

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