



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>	<u>Test Method*</u>	<u>Typical</u>
Polymer, parts	—	100
Carbon black, N-550	—	52
Oil, parts – Hi aromatic	—	10
Mooney viscosity, UMS 4+4 (100°C)	—	37 - 57
Bound Styrene, Weight %	—	22.5 – 24.5
Organic acid, Weight %	—	3.1 – 5.1
Soap, Weight %	—	0.5 Max.
Ash, Weight %	—	0.50 Max.
Volatile matter, Weight %	ZS 1008K	0.75 Max.
Carbon black, Weight %	—	30.6 – 33.6
Emulsifier	—	Rosin acid
Coagulant	—	Acid
Stabilizer	—	Staining
Specific gravity, g/cc (bale).....	ASTM D-792	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.

* Company Test Methods

** 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)

<u>Property</u>	<u>Result</u>
M _L 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

<u>MRG Test Recipe (ASTM 3186)</u>	<u>Weight</u>	<u>Reference Material</u>
SBR 1606L oil-extended, CBMB elastomer	162	
Zinc oxide	3.0	IRM 91A
Sulphur	1.75	NIST SRM 371
Stearic acid	1.5	NIST SRM 372
TBBS	1.25	NIST RM 8384

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