



Lion Elastomers LLC

1615 Main Street • P.O. Box 667 • Port Neches, TX 77651
800 / 535-9960 • www.lionelastomers.com

SBR 1888 Elastomer

Product Data

SBR 1888 is a carbon black master batch (CBMB) based on SBR 1712 latex and 82.5 parts N-339 carbon black similar to SBR 1848 but extended with low PCA RAE extender oil. It provides tensile properties greater than equivalent CBMB produced with HAF or HAF-H carbon black, and superior abrasion resistance.

Unique Features

- ▶ Cold polymerized styrene-butadiene elastomer
- ▶ Carbon black master batch
- ▶ RAE extender oil

Applications

- ▶ Tire treading
- ▶ Mechanical rubber goods

Typical Properties

<u>Property</u>	<u>Test Method*</u>	<u>Typical</u>
Polymer, parts	—	100
Carbon black, N-339	—	82.5
Oil, parts – RAE	—	62.5
Mooney viscosity, UMS 4+4 (100°C)	—	46 - 66
Bound Styrene, Weight %	—	22.5 – 24.5
Organic acid, Weight %	—	1.8 – 3.8
Soap, Weight %	—	0.5 Max.
Ash, Weight %	—	0.50 Max.
Volatile matter, Weight %	ZS 1008K	0.75 Max.
Carbon black, Weight %	—	32.2 – 35.2
Emulsifier	—	Mixed acid
Coagulant	—	Acid
Stabilizer	—	Staining
Specific gravity, g/cc (bale).....	ASTM D-792	1.14
Physical form**, lbs/bale	—	90.0 (41 kg)

SBR 1888 is a carbon black master batch based with N-339 carbon black and with low PCA RAE extender oil. It is recommended in a variety of rubber goods such as passenger tread compounds, retreads 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	
dN-m	
M _H lbf-in	
dN-m	
t _s 1, minutes	
t' 50, minutes	
t' 90, minutes	

<u>MRG Test Recipe (ASTM 3186)</u>	<u>Weight</u>	<u>Reference Material</u>
SBR 1888 oil-extended, CBMB elastomer	245	
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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