



Lion Elastomers LLC

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

## SBR 1605 Elastomer

## Product Data

SBR 1605 is a carbon black master batch (CBMB) SBR with 50 parts of N-550 carbon black.

### Unique Features

- ▶ Cold polymerized styrene-butadiene elastomer
- ▶ Carbon black master batch
- ▶ No added extender oil

### Applications

- ▶ Mechanical rubber goods
- ▶ Conveyor belting

### Typical Properties

<u>Property</u>	<u>Test Method*</u>	<u>Typical</u>
Polymer, parts .....	—	100
Carbon black, N-550 .....	—	50
Mooney viscosity, UMS 4+4 (100°C) .....	—	55 - 75
Bound Styrene, Weight % .....	—	22.5 – 24.5
Organic acid, Weight % .....	—	3.0 – 5.0
Soap, Weight % .....	—	0.5 Max.
Ash, Weight % .....	—	0.50 Max.
Volatile matter, Weight % .....	ZS 1008K	0.75 Max.
Carbon black, Weight % .....	—	31.8 – 34.8
Emulsifier .....	—	Fatty acid
Coagulant .....	—	Acid
Stabilizer .....	—	Non-staining
Specific gravity, g/cc (bale).....	ASTM D-792	1.14
Physical form**, lbs/bale .....	—	90.0 (41 kg)

**SBR 1605 is a carbon black master batch SBR with 50 parts of N-550 carbon black. No added extender oil allows a wider end use of the product in a variety of rubber goods such as 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.

**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 <sub>L</sub> lbf-in .....	
dN-m .....	
M <sub>H</sub> lbf-in .....	
dN-m .....	
t <sub>s</sub> 1, minutes .....	
t' 50, minutes .....	
t' 90, minutes .....	

### MRG Test Recipe (ASTM 3186)

<u>MRG Test Recipe (ASTM 3186)</u>	<u>Weight</u>	<u>Reference Material</u>
SBR 1605 CBMB elastomer .....	150	
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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