

Lion Elastomers LLC

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# **SBR 1013 Elastomer**

# **Product Data**

Hot polymerized SBR 1013 elastomer is used in adhesives, tire liners, and mechanical rubber goods, including auto mounts and household products.

### **Unique Features**

- ► Hot polymerized styrene-butadiene elastomer
- ▶ Low air permeability
- High bound Styrene content for green strength
- Exceptionally light colored and excellent flow

#### **Applications**

- Tape and general purpose adhesives
- Mechanical rubber goods and floor tile
- Tire liners

### **Typical Properties**

<b>Property</b>	Test Method*	<b>Typical</b>
Mooney viscosity, MML 1+4 (100°C)	_	40 - 50
Bound Styrene, Weight %	_	42.0 - 45.0
Organic acid, Weight %	_	4.0 - 6.0
Soap, Weight %	_	0.5 Max.
Ash, Weight %	_	1.5 Max.
Volatile matter, Weight %	ZS 1008K	0.75 Max.
Emulsifier	_	Fatty acid
Coagulant	_	Acid
Stabilizer	_	Non-Staining
Specific gravity, g/cc (bale)	ASTM D-792	0.96
Color	_	White
Physical form**, lbs/bale	_	70.0 (32 kg)

SBR 1013 elastomer is a high bound-Styrene, exceptionally light colored, hot polymerized SBR polymer. It features high green strength, low air permeability, and excellent flow characteristics.

**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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<sup>\*</sup> Company Test Methods

<sup>\*\*</sup> This product is available in 70 lb rectangular bales individually wrapped in 1.5 mil, low melting point film and shipped in two cell cardboard containers.

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## Rheometric Properties (MDR 2000 rheometer)

<u>Property</u>	<u>Result</u>
M <sub>L</sub> lbf-in	0.5 - 2.5
dN-m	0.6 - 2.8
M <sub>H</sub> lbf-in	13.0 – 17.0
dN-m	14.7 – 19.2
t <sub>s</sub> 1, minutes	4.3 - 6.3
t' 50, minutes	7.4 - 11.4
t' 90, minutes	14.0 – 19.0

MRG Starting Point Formulation	<u>Weight</u>	<u>Reference</u> Material
SBR 1013 elastomer	100.0	<del></del>
Zinc oxide	3.0	IRM 91A
Sulphur	1.75	NIST SRM 371
Stearic acid	1.0	NIST SRM 372
Oil furnace black	50.0	IRB #8
TBBS	1.0	NIST RM 8384

SBR 1013 elastomer is recommended for adhesives, tire liners, mechanical rubber goods, including auto mounts, and household products.

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