

Lion Elastomers LLC

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# **SBR 1769 Elastomer**

# **Product Data**

SBR 1769 is an environmentally friendly version of SBR 1721 with the highest bound styrene content, and a naphthenic oil extender oil. It was developed for tire applications.

#### **Unique Features**

- Cold polymerized styrene-butadiene elastomer
- ► Highest bound styrene and naphthenic oil extender

#### **Applications**

- Passenger & heavy-service treads
- Retread rubbers and bicycle tires

### **Typical Properties**

<b>Property</b>	Test Method*	<u>Typical</u>
Polymer, parts	<del>_</del>	100
Oil, parts – Naphthenic	_	37.5
Mooney viscosity, MML 1+4 (100°C)	_	45 - 55
Bound Styrene, Weight %	_	39.0 – 41.0
Organic acid, Weight %	_	4.1 – 5.7
Soap, Weight %	_	0.5 Max.
Ash, Weight %	_	0.70 Max.
Volatile matter, Weight %	ZS 1008K	0.75 Max.
Emulsifier	_	Mixed acid
Coagulant	_	Acid
Stabilizer	_	Staining
Specific gravity, g/cc (bale)	ASTM D-792	0.95
Physical form**, lbs/bale	_	80.0 (36 kg)

SBR 1769 is an environmentally friendly version of SBR 1721 replacing aromatic extender oil with a naphthenic oil. It is recommended for applications such as passenger and heavy-service treads, retread rubbers, and bicycle tires.

**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 80 lb rectangular bales individually wrapped in 1.5 mil, low melting point film and shipped in cardboard containers or returnable aluminum OTD.

## **SBR 1769 Elastomer**

### Rheometric Properties (MDR 2000 rheometer)

<u>Property</u>	<u>Result</u>	
M <sub>L</sub> lbf-in	1.2 - 3.2	
dN-m	1.4 - 3.6	
M <sub>H</sub> lbf-in	10.6 – 14.6	
dN-m	12.0 – 16.5	
t <sub>s</sub> 1, minutes	3.6 - 5.6	
t' 50, minutes	7.2 - 11.2	
t' 90, minutes	13.8 – 18.8	
MRG Test Recipe (ASTM 3185 2B)	Weight	Reference <u>Material</u>
MRG Test Recipe (ASTM 3185 2B)	<u>Weight</u>	
MRG Test Recipe (ASTM 3185 2B)  SBR 1769 oil-extended elastomer	<b>Weight</b> 137.5	<u>Material</u>
MRG Test Recipe (ASTM 3185 2B)  SBR 1769 oil-extended elastomer  Zinc oxide	Weight  137.5  3.0	Material IRM 91A
MRG Test Recipe (ASTM 3185 2B)  SBR 1769 oil-extended elastomer  Zinc oxide  Sulphur	Weight  137.5  3.0  1.75	Material IRM 91A NIST SRM 371

SBR 1769 is an environmentally friendly version of SBR 1721 replacing aromatic extender oil with a naphthenic oil and containing the highest bound styrene content. It is recommended for applications such as passenger and heavy-service treads, retread rubbers, and bicycle tires.

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