

Lion Elastomers LLC

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

SBR 1763 Elastomer

Product Data

SBR 1763 is an environmentally friendly version of SBR 1721 replacing aromatic extender oil with a naphthenic oil. It was developed for tire applications.

Unique Features

- Cold polymerized styrene-butadiene elastomer
- Naphthenic oil extended

Applications

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

Typical Properties

<u>Property</u>	Test Method*	<u>Typical</u>
Polymer, parts	_	100
Oil, parts – Naphthenic	_	37.5
Mooney viscosity, MML 1+4 (100°C)		45 - 55
Bound Styrene, Weight %		22.5 – 24.5
Organic acid, Weight %		4.0 - 6.0
Soap, Weight %		0.5 Max.
Ash, Weight %	_	0.80 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 1763 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.

SBR 1763 2/17

^{*} Company Test Methods

^{**} This product is available in 80 lb rectangular bales individually wrapped in 1.5 mil, low melting point film and shipped in returnable aluminum OTD.

SBR 1763 Elastomer

Rheometric Properties (MDR 2000 rheometer)

<u>Property</u>	<u>Result</u>	
M _L lbf-in	0.8 - 2.8	
dN-m	0.9 - 3.2	
M _H lbf-in	10.3 – 14.3	
dN-m	11.6 – 14.9	
t _s 1, minutes	4.1 - 6.1	
t' 50, minutes	7.0 - 11.0	
t' 90, minutes	12.8 – 17.8	
MRG Test Recipe (ASTM 3185 2B)	<u>Weight</u>	Reference
MRG Test Recipe (ASTM 3185 2B)	Weight	Reference <u>Material</u>
MRG Test Recipe (ASTM 3185 2B) SBR 1763 oil-extended elastomer	<u>Weight</u> 137.5	
, , ,		
SBR 1763 oil-extended elastomer	137.5	<u>Material</u>
SBR 1763 oil-extended elastomer	137.5 3.0	Material IRM 91A
SBR 1763 oil-extended elastomer	137.5 3.0 1.75	Material IRM 91A NIST SRM 371
SBR 1763 oil-extended elastomer Zinc oxide Sulphur Stearic acid	137.5 3.0 1.75 1.0	IRM 91A NIST SRM 371 NIST SRM 372

SBR 1763 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.

Notice: All information supplied by or on behalf of Lion Elastomers LLC in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and believed reliable, but Lion Elastomers LLC assumes no liability whatsoever in respect of application, processing or use made of the aforementioned information or products, or any consequence thereof. The buyer undertakes all liability in respect of the application, processing or use made of the aforementioned information or product, whose quality and other properties he shall verify, or any consequence thereof. No liability whatsoever shall attach to Lion Elastomers LLC for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of the application, processing or use of the aforementioned information or products by the buyer.

SBR 1763 2/17