



Lion Elastomers LLC

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SBR 1006 Elastomer

Product Data

Hot polymerized SBR 1006 elastomer is used in applications such as adhesives, mechanical rubber goods, floor tile, cove base and brake friction products.

Unique Features

- ▶ Hot polymerized styrene-butadiene elastomer
- ▶ Broad molecular weight makes dissolving easier
- ▶ Accepts higher filler loadings
- ▶ Light colored and general purpose

Applications

- ▶ General purpose adhesives
- ▶ Mechanical rubber goods, cove base and floor tile
- ▶ Binder for brake friction products

Typical Properties

<u>Property</u>	<u>Test Method*</u>	<u>Typical</u>
Mooney viscosity, MML 1+4 (100°C)	—	44 - 54
Bound Styrene, Weight %	—	22.5 – 24.5
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	0.94
Color	—	Off White
Physical form**, lbs/bale	—	70.0 (32 kg)

SBR 1006 elastomer is recommended for adhesive, household goods, matting, friction and other products where freedom from discoloration is advantageous.

* Company Test Methods

** 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.

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	0.8 – 2.8
dN-m	0.9 – 3.2
M _H lbf-in	14.5 – 18.5
dN-m	16.4 – 20.9
t _s 1, minutes	3.5 – 5.5
t' 50, minutes	6.4 – 11.4
t' 90, minutes	12.0 – 18.0

<u>MRG Starting Point Formulation</u>	<u>Weight</u>	<u>Reference Material</u>
SBR 1006 elastomer	100.0	
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

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