

BUNA™ SB 1502-SCHKOPAU

COLD POLYMERISED EMULSION STYRENE

BUTADIENE RUBBER (E-SBR)

Composition

BUNA™ SB 1502-Schkopau is manufactured by cold polymerization using mixed rosin acid/fatty acid soaps. A non-discolouring stabilizer is added during the production process.

Application

BUNA™ SB 1502-Schkopau is a general purpose rubber. It can be processed in all sectors of the tire and rubber industry. BUNA™ SB 1502-Schkopau is mainly used for the production of light-coloured rubber articles which can also be applied in the food industry (Trinseo may be consulted regarding applicable regulations).

Packaging

- BUNA™ SB 1502-Schkopau is supplied in bales of 25 kg nominal weight.
- Bales are wrapped in 50 micron polyethylene film (Vicat softening temperature: 92 °C).
- One box contains forty eight bales (nominal 1200 kg)

Specification sheet

Raw material specification sheets are available from Trinseo or your local supplier on request.

Handling precautions

- BUNA™ SB 1502-Schkopau has to be kept away from sources of ignition.
- Reference must be made to the Safety Data Sheet for this product.
- The precautions advised in the Safety Data Sheet should be strictly observed.

Storage

BUNA™ SB 1502-Schkopau should be stored in an adequately ventilated area where it will not be subjected to direct sunlight or temperatures in excess of 30 °C. Under these conditions BUNA™ SB 1502-Schkopau has a shelf life of at least 12 months.

CHARACTERISTIC PROPERTIES OF BUNA™ SB 1502-SCHKOPAU

Chemical and Physical Data

Property	Test Method	Unit	Value
Mooney viscosity⁽¹⁾	ASTM D 1646	MU	49.7
Bound styrene	ASTM D 5775	%	23.4
Organic acid	ASTM D 5774	%	5.7
Volatile matter	ASTM D 5668 ⁽²⁾	%	0.3
Ash	ASTM D 5667	%	0.04
Specific gravity	SM ⁽³⁾	g/cm ³	0.93

(1) ML 1+4 (100 °C) massed sample (2) 1 h at 105 °C in a hot air oven, 5 g sample (3) Supplier Method

Test Formulation (ASTM D 3185-1A based on IRB8 black)

	Parts by Mass
Polymer	100.0
Carbon black IRB8	50.0
Zinc oxide	3.0
Sulphur	1.75
Stearic acid	1.0
Accelerator (TBBS)	1.0

Rheometer^{a) b)}

Property	Test Method	Unit	Value
t_{s2}	ASTM D 5289 ⁽⁴⁾	min	5.5
t_c(50)	ASTM D 5289	min	9.0
t_c(90)	ASTM D 5289	min	15.1
ML	ASTM D 5289	dNm	2.6
MH	ASTM D 5289	dNm	21.2

Vulcanisate Data^{a) b)}

Property	Test Method	Unit	Value
Tensile strength	ASTM D 412 ⁽⁵⁾	MPa	27.5
Elongation at break	ASTM D 412	%	450.0
Modulus 300%	ASTM D 412	MPa	16.8

(4) Test temperature 160 °C (5) Cure: 45 minutes at 145 °C (a) Material properties are typical properties and do not constitute a sales specification.

(b) All figures are based on the test procedures of the Schkopau test lab.

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North America

U.S.	+1-855-TRINSEO (+1-855-874-6736)
U.S. & Canada	+1-989-633-1718

Latin America

Brazil	+55-11-5184-8722
Argentina, Chile, South Region of LAA	+54-11-4319-0100
Mexico, Colombia, North Region of LAA	+52-55-5201-4700

Europe/Middle East/Africa

+800-444-11-444
+31-11567-2601

Asia Pacific

	+603-7965-53-19
China	+86-21-3851-1017

Email	CIG@trinseo.com
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Internet	trinseo.com
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