

# BST Elastomers Co., Ltd.

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## Specification of BSTE SBR1502

(Spec. Code : BSTE-STD-008)

### Technical Data Sheet

#### Chemical Identification

Emulsion Styrene Butadiene Rubber (E-SBR)

#### Product Characteristic

#### RAW POLYMER

	Unit	Specification Value		Test Method
		Minimum	Maximum	
Volatile Matter Content	%	-	0.75	ASTM D5668-09 (Reapproved 2014)
Ash Content	%	-	0.75	ASTM D5667-95 (Reapproved 2015)
Soap Content	%	-	0.50	ASTM D5774-95 (Reapproved 2014)
Organic Acid	%	4.75	7.00	ASTM D5774-95 (Reapproved 2014)
Bound Styrene	%	22.5	24.5	ASTM D5775-95 (Reapproved 2014)
Raw Mooney Viscosity	MU	47	57	ASTM D1646-15

ML1+4@100°C (Massed Method)

#### COMPOUND PROPERTIES

Compound Mooney Viscosity	MU	72	86	ASTM D1646-15
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ML1+4@100°C

Tensile Strength, 145°C & 35 min	MPa	25.5	33.3	ASTM D412-15a
Elongation at Break, 145°C & 35 min	%	380	540	ASTM D412-15a

300% Modulus@145°C

25 minutes	MPa	12.0	18.0	ASTM D412-15a
35 minutes	MPa	15.1	20.9	ASTM D412-15a
50 minutes	MPa	17.2	22.8	ASTM D412-15a

#### COMPOUND RECIPE (ASTM D3185 - 06 (Reapproved 2016))

	Parts
Raw SBR1502	100
HAF Black (IRB#7)	50
Zinc Oxide	3
Stearic Acid	1
Accelerator (TBBS)	1
Sulfur	1.75

Compounding condition : 6 inch Two Roll Mill