

BST Elastomers Co., Ltd.**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 D5668-21
Ash Content	%	-	0.75	ASTM D5667-95 (Reapproved 2019)
Soap Content	%	-	0.50	ASTM D5774-95 (Reapproved 2019)
Organic Acid	%	4.75	7.00	ASTM D5774-95 (Reapproved 2019)
Bound Styrene	%	22.5	24.5	ASTM D5775-95 (Reapproved 2019)
Raw Mooney Viscosity ML1+4@100°C (Massed Method)	MU	47	57	ASTM D1646-19a

COMPOUND PROPERTIES

Compound Mooney Viscosity ML1+4@100°C	MU	72	86	ASTM D1646-19a
Tensile Strength, 145°C & 35 min	MPa	25.5	33.3	ASTM D412-16 (2021)
Elongation at Break, 145°C & 35 min	%	380	540	ASTM D412-16 (2021)
300% Modulus@145°C				
25 minutes	MPa	12.0	18.0	ASTM D412-16 (2021)
35 minutes	MPa	15.1	20.9	ASTM D412-16 (2021)
50 minutes	MPa	17.2	22.8	ASTM D412-16 (2021)

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

	Parts
Raw SBR1502	100
HAF Black (IRB#8)	50
Zinc Oxide	3
Stearic Acid	1
Accelerator (TBBS)	1
Sulfur	1.75

Compounding condition : 6 inch Two Roll Mill