

BST Elastomers Co., Ltd.

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Specification of BSTE SBR0122

(Spec. Code : BSTE-STD-014)

Technical Data Sheet

Chemical Identification

Oil Extended Emulsion Styrene Butadiene
Rubber (E-SBR)

Product Characteristic

RAW POLYMER

	<u>Unit</u>	<u>Specification Value</u>		<u>Test Method</u>
		Minimum	Maximum	
Volatile Matter	%	-	0.75	ASTM D5668-09 (Reapproved 2014)
Ash Content	%	-	1.50	ASTM D5667-95 (Reapproved 2015)
Soap Content	%	-	0.50	ASTM D5774-95 (Reapproved 2014)
Organic Acid	%	4.20	6.20	ASTM D5774-95 (Reapproved 2014)
Bound Styrene	%	35.5	38.5	ASTM D5775-95 (Reapproved 2014)
Oil Content	%	23.9	26.9	ASTM D5774-95 (Reapproved 2014)
Raw Mooney Viscosity ML1+4@100°C (Massed Method)	MU	47.0	57.0	ASTM D1646-15

COMPOUND PROPERTIES

Compound Mooney Viscosity ML1+4@100°C	MU	58	70	ASTM D1646-15
Tensile Strength @ 145°C, 35 min	MPa	19.1	-	ASTM D412-15a
Elongation at Break @ 145°C, 35 min	%	480	-	ASTM D412-15a
300% Modulus@145°C				
25 minutes	MPa	6.3	11.1	ASTM D412-15a
35 minutes	MPa	8.3	13.1	ASTM D412-15a
50 minutes	MPa	9.4	14.2	ASTM D412-15a

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

	<u>Parts</u>
Raw SBR0122	134.00
HAF Black (IRB#7)	67.00
Zinc Oxide	3.00
Stearic Acid	1.00
Accelerator (TBBS)	1.34
Sulfur	1.75

Compounding condition : 6 inch Two Roll Mill