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 D5668-99
Ash Content	%	-	0.75	ASTM D5667-95 (Reapproved 2000)
Soap Content	%	-	0.50	ASTM D5774-95 (Reapproved 2000)
Organic Acid	%	4.75	7.00	ASTM D5774-95 (Reapproved 2000)
Bound Styrene	%	22.5	24.5	ASTM D5775-95 (Reapproved 2000)
Raw Mooney Viscosity	MU	47	57	ASTM D1646-03
ML1+4@100^{0}C (Massed Method)				
COMPOUND PROPERTIES				
Compound Mooney Viscosity	MU	72	86	ASTM D1646-03
ML1+4@100^{0}C				
Tensile Strength, 145^{0}C & 35 min	MPa	25.5	33.3	ASTM D412-98 (Reapproved 2002)
Elongation at Break, 145^{0}C & 35 min	%	380	540	ASTM D412-98 (Reapproved 2002)
300% Modulus@145^{0}C				
25 minutes	MPa	12.0	18.0	ASTM D412-98 (Reapproved 2002)
35 minutes	MPa	15.1	20.9	ASTM D412-98 (Reapproved 2002)
50 minutes	MPa	17.2	22.8	ASTM D412-98 (Reapproved 2002)

COMPOUND RECIPE (ASTM D3185)	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