

BST Elastomers Co., Ltd.

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Specification of BSTE BR01

(Spec. Code : BSTE-STD-001)

Technical Data Sheet

Chemical Identification

Solution Butadiene Rubber (BR)

Nickel Catalyst System

Product Characteristic

RAW POLYMER

	Unit	Specification Value		Test Method
		Minimum	Maximum	
Volatile Matter Content	%	-	0.75	ASTM D5668-99
Ash Content	%	-	0.50	ASTM D5667-95 (Reapproved 2000)
Cis-1,4 Content	%	95.0	-	FT-IR
Raw Mooney Viscosity	MU	40	50	ASTM D1646-03
ML1+4@100°C (Massed Method)				

COMPOUND PROPERTIES

Compound Mooney Viscosity	MU	58	72	ASTM D1646-03
ML1+4@100°C				
Tensile Strength, 145°C & 35 min	MPa	14.5	20.7	ASTM D412-98(Reapproved 2002)
Elongation at Break, 145°C & 35 min	%	400	530	ASTM D412-98(Reapproved 2002)
300% Modulus@145°C				
25 minutes	MPa	7.0	11.8	ASTM D412-98(Reapproved 2002)
35 minutes	MPa	8.0	11.8	ASTM D412-98(Reapproved 2002)
50 minutes	MPa	8.0	11.8	ASTM D412-98(Reapproved 2002)

COMPOUND RECIPE (ASTM D3189)

	Parts
Raw BR01	100
HAF Black (IRB#7)	60
Zinc Oxide	3
Stearic Acid	2
Accelerator (TBBS)	0.9
Sulfur	1.5
Sun Oil (ASTM Type 103 Petroleum Oil)	15

Compounding condition : 1.64L Banbury Mixer + 6 inch Two Roll Mill