



SBR-1500E Polymer Data

Polymerization System	-- Cold emulsion Polymerization
Emulsifier	-- Rosin Acid Soap
Stabilizer	-- Staining
Coagulant	-- Acid
Characteristics	-- Better physical properties than its corresponding hot rubber, excellent tack properties and good wear and flexing resistance
Application	-- Tire, camelback, conveyor belt, rubber sheets or clothes as well as molded or extruded mechanical goods.

Specification Values

<u>POLYMER PROPERTIES</u>		<u>minimum.</u>	<u>maximum</u>	<u>Test Method</u>
Bound Styrene	(%)	22.5	24.5	ASTM D-5775
Volatile Matter	(%)	-----	0.75	ASTM D-5668
Ash	(%)	-----	1.00	ASTM D-5667
Organic Acid	(%)	5.00	7.25	ASTM D-5774
Mooney Viscosity, ML ₁₊₄ , 100°C *		46	58	ASTM D-1646

* Massed sample

COMPOUND PROPERTIES (Test Recipe ASTM D-3185; Cure @ 145°C)

Tensile Strength	35' (kg/cm ²)	210	-----	ASTM D-412
Elongation	35' (%)	400	-----	ASTM D-412
300% Modulus	25' (kg/cm ²)	115	155	ASTM D-412
	35' (kg/cm ²)	150	190	ASTM D-412
	50' (kg/cm ²)	170	210	ASTM D-412

Test Recipe, ASTM D-3185

Parts

Taipol SBR-1500E	100.00
Zinc oxide	3.00
Stearic acid	1.00
Sulfur	1.75
HAF black (IRB#9)	50.00
TBBS	1.00
Total	156.75

