



SBR-1712E Polymer Data

Polymerization System	-- Cold emulsion Polymerization
Emulsifier	-- Mixed acid soap
Stabilizer	-- Staining
Coagulant	-- Acid
Extender	-- Highly aromatic oil, 37.5 phr
Characteristics	-- Superior processing properties with extender oil, good wear, tear and cracking resistance
Application	-- Tire, footwear, conveyor belts, camelback, molded and extruded industrial 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	(%)	3.90	5.70	ASTM D-5774
Mooney Viscosity, ML <sub>1+4</sub> , 100°C *		42	56	ASTM D-1646

\* Massed sample

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

Tensile Strength	35' (kg/cm <sup>2</sup> )	180	-----	ASTM D-412
Elongation	35' (%)	420	-----	ASTM D-412
300% Modulus	25' (kg/cm <sup>2</sup> )	70	110	ASTM D-412
	35' (kg/cm <sup>2</sup> )	85	125	ASTM D-412
	50' (kg/cm <sup>2</sup> )	100	140	ASTM D-412

**Test Recipe, ASTM D-3185**

<u>Test Recipe, ASTM D-3185</u>	<u>Parts</u>
Taipol SBR-1712E	137.50
Zinc oxide	3.00
Stearic acid	1.00
Sulfur	1.75
HAF black(IRB#9)	68.75
<u>TBBS</u>	<u>1.38</u>
Total	213.38

