



SBR-1778 Polymer Data

Polymerization System	-- Cold emulsion Polymerization
Emulsifier	-- Mixed acid soap
Stabilizer	-- Non-Staining, non-discoloring
Coagulant	-- Acid
Extender	-- Semi-paraffinic oil, 37.5 parts
Characteristics	-- Light colored and excellent processing properties.
Application	-- Hoses, sports goods, shoe soles, conveyor belt, tire and other industrial products.

**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
Soap	(%)	-----	0.50	ASTM D-5774
Mooney Viscosity, ML <sub>1+4</sub> , 100°C *		40	54	ASTM D-1646

\* Massed sample

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

Tensile Strength	35' (kg/cm <sup>2</sup> )	160	-----	ASTM D-412
Elongation	35' (%)	380	-----	ASTM D-412
300% Modulus	25' (kg/cm <sup>2</sup> )	65	105	ASTM D-412
	35' (kg/cm <sup>2</sup> )	90	130	ASTM D-412
	50' (kg/cm <sup>2</sup> )	110	150	ASTM D-412

**Test Recipe, ASTM D-3185**

	<u>Parts</u>
Taipol SBR-1778	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

