

SBR-1723 Polymer Data

Polymerization System	-- Cold emulsion Polymerization
Emulsifier	-- Mixed acid soap
Stabilizer	-- Staining
Coagulant	-- Acid
Extender	-- 37.5 phr TDAE (Treated Distillate Aromatic Extract) oil possessing PCA (Poly Cyclic Aromatics) content less than 3% (IP346 method), PAHs (Poly Aromatic Hydrocarbons) less than 10 ppm which is compliant with the European directive 2005/69/EC.
Characteristics	-- Superior processing properties, good wear, tear and cracking resistance. Free from nitrosating agents and pre-formed nitrosamines, Containing non-toxic extender oil
Application	-- An environmental-friendly rubber for tire, shoe sole, carpet, conveyor belts, molded and extruded in general purpose. It can be processed in all sectors of the tire and rubber industry.

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 ₁₊₄ , 100°C *		38	52	ASTM D-1646

* Massed sample

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

Tensile Strength	35' (kg/cm ²)	180	-----	ASTM D-412
Elongation	35' (%)	420	-----	ASTM D-412
300% Modulus	25' (kg/cm ²)	75	115	ASTM D-412
	35' (kg/cm ²)	90	130	ASTM D-412
	50' (kg/cm ²)	105	145	ASTM D-412





<u>Test Recipe, ASTM D-3185</u>	<u>Parts</u>
Taipol SBR-1723	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

