

SBR-1736 Polymer Data

Polymerization System	-- Cold emulsion Polymerization
Emulsifier	-- Mixed acid soap
Stabilizer	-- Staining
Coagulant	-- Acid
Extender	-- 34.0 phr TDAE(Treated Distillate Aromatic Extract) oil possessing PCA(Poly Cyclic Aromatics)content less than3% (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	(%)	35.5	38.5	ASTM D-5775
Volatile Matter	(%)	-----	0.75	ASTM D-5668
Ash	(%)	-----	0.5	ASTM D-5667
Organic Acid	(%)	3.4	5.2	ASTM D-5774
Oil content	(%)	23.9	26.9	ASTM D-5774
Mooney Viscosity, ML ₁₊₄ ,100°C *		47	57	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	35' (kg/cm ²)	100	140	ASTM D-412



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<u>Test Recipe, ASTM D-3185</u>	<u>Parts</u>
Taipol SBR-1736	134
Zinc oxide	3.00
Stearic acid	1.00
Sulfur	1.75
HAF black(IRB#9)	67
<u>TBBS</u>	<u>1.34</u>
Total	208.09