

# Emulsion Styrene-Butadiene Rubber



## Indiapol SBR-1712

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### About Product:

Synthetic rubber Indiapol SBR-1712 is oil-extended copolymer of styrene and butadiene, obtained by cold emulsion polymerization method with the use of rosin and fatty acid soaps. The copolymer is extended with Aromatic Oil - DAE. The polymer is stabilized by staining antioxidant. It provides easier incorporation of filler and maintaining good processability.

### Product Summary:

<b>Physical form</b>	Dark Brown colored bale wrapped in easily dispersible PE film
<b>Packaging</b>	Individual bales having weight ~35kg are wrapped in PE film. Product is available in returnable metal crates consisting of 36 bales or individual paper bag.
<b>Shelf Life</b>	1 years from the date of manufacture.
<b>Storage condition</b>	The product should be stored in its original packing at ambient temperature in dry conditions away from heat, ultraviolet or direct sun light.
<b>Safety Guidelines</b>	Refer Safety Data Sheet for detailed information on product safety.
<b>Applications</b>	Tyre, conveyor belt, hose & mechanical rubber goods.

### Product Specification:

Parameters	Limit	Test Method
Mooney viscosity ML 1+4 (100 °C), M	49 ± 7	ASTM D 1646
Organic acids, % wt	3.90-5.70	ASTM D 5774
Soap, % wt	0.50 max.	ASTM D 5774
Bound styrene, % wt	23.5 ± 1.0	ASTM D 5775
Volatile matter, % wt	0.75 max.	ASTM D 5668
Ash content, % wt	1.0 max.	ASTM D 5667
Oil content, % wt	27.3 ± 2.0	ASTM D 5774
Compound properties (ASTM D 3185 Table 2B recipe), Curing 145 °C × 35 min:		
Tensile Strength, Kg/Cm <sup>2</sup>	180 min.	ASTM D 412
Modulus (300%), Kg/Cm <sup>2</sup>	105 ± 20	ASTM D 412
Ultimate Elongation, %	420 min.	ASTM D 412

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