

# Emulsion Styrene-Butadiene Rubber



## Indiapol SBR-1500

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### About Product:

Synthetic rubber Indiapol SBR-1500 is styrene and butadiene copolymer obtained by cold emulsion polymerization using the soaps of rosin and fatty acids. The polymer is stabilized by staining antioxidant. It provides good physical and process properties (tack).

### Product Summary:

|                          |  |
|--------------------------|--|
| <b>Physical form</b>     | 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>      | Tires, hosepipes, Conveyor belts and various rubber articles.  |

### Product Specification:

| Parameters   | Limit      | Test Method |
|--|------------|-------------|
| Mooney viscosity ML 1+4 (100 °C), M  | 52 ± 6     | ASTM D 1646 |
| Organic acids, % wt  | 5.00-7.25  | 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 |
| Compound properties (ASTM D 3185 Table 1A recipe), Curing 145 °C × 35 min: |            |             |
| Tensile Strength, Kg/Cm <sup>2</sup>                                       | 210 min.   | ASTM D 412  |
| Modulus (300%) , Kg/Cm <sup>2</sup>  | 170 ± 20   | ASTM D 412  |
| Ultimate Elongation, %   | 400 min.   | ASTM D 412  |

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