

# TJPC 1712

## Cold Emulsion Oil Extended Styrene-Butadiene Rubber – (E-SBR)

### CHARACTERISTICS

Styrene-Butadiene Rubber "TJPC 1712" is produced by a technology of cold emulsion copolymerization based on soaps of rosin and fatty acids and contains 23.5% of chemically bonded styrene and extended with 37.5 parts highly aromatic oil. It is coagulated by a system of acid and synthetic coagulant. The rubber is protected by stabilizer system. Raw materials for this product are carefully chosen for the best physical properties.

TJPC 1712 has very good properties such as processability, abrasion resistance, less tendency to scorching processing.

### APPLICATION

Application possibilities for TJPC 1712 include tire and mechanical goods compounds where color and staining are not decisive factors.

### Typical Properties<sup>1</sup>

| Typical Properties                              | Units              | Values    | Test method |
|---|--------------------|-----------|-------------|
| Raw Mooney viscosity                            | MU                 | 42-52     | ASTM D1646  |
| Volatile Material                               | % wt               | < 0.75    | ASTM D5668  |
| Ash Content                                     | % wt               | <0.5      | ASTM D5667  |
| Organic acids                                   | % wt               | 3.9-5.7   | ASTM D5774  |
| Soaps   | % wt               | < 0.5     | ASTM D5774  |
| Bounded styrene                                 | % wt               | 22.5-24.5 | ASTM D5775  |
| Oil Content                                     | % wt               | 25.8-28.8 | ASTM D5775  |
| Compound Mooney viscosity <sup>2</sup>          | MU                 | <62       | ASTM D1646  |
| Tensile strength (35 min cured) <sup>2</sup>    | kg/cm <sup>2</sup> | >200      | ASTM D 412  |
| Ultimate elongation (35 min cured) <sup>2</sup> | %                  | >530      | ASTM D 412  |
| 300 % Modulus (35 min cured) <sup>2</sup>       | kg/cm <sup>2</sup> | 79-109    | ASTM D 412  |

<sup>1</sup> The above data is only a typical value and to each shipping lot/delivery a quality certificate including data on properties of the product determined during release control is issued. Scope of the testing which is covered by the quality certificate is each time agreed upon in the sales contract.

<sup>2</sup> Compounding according ASTM D-3182 & D-3185.

### PACKAGING

- 35 ±0.5 KG bales wrapped with polyethylene film.
- 36 bales per crate (1260±18 KG).

### TRANSPORTATION

TJPC1712 is typically transported in covered road trucks, in covered railway carriages and in standard shipping containers. TJPC 1712 is not a dangerous material to transport.

### STORAGE

Product should be stored in sheltered conditions away from direct sunlight away from radiant heating elements and the temperature should not exceed 30°C. Shelf time of SBR1712 product is for 2 years.

Revised Date: 2018



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