

TJPC 1220

High Cis Polybutadiene Rubber – (PBR)

CHARACTERISTICS

High-Cis Polybutadiene rubber “TJPC 1220” is produced by a technology of solution polymerization based on Ziegler-Natta (Cobalt) catalyst. It has more than 96% of 1,4 Cis content and very low glass transition temperature.

Cured “TJPC 1220” has excellent properties such as abrasion resistance, tear strength, resilience, weathering resistance and low rolling resistance (good fuel economy) due to its low glass transition temperature (Tg typically <-90°C).

APPLICATION

TJPC 1220 is appropriate for rubber compounds used in the production of tire, floor coverings, footwear, children toys, rubber hose, belts and golf balls.

Typical Properties¹

| Typical Properties | Units | Values | Test method |
|------------------------------------|-------|----------|-----------------|
| Mooney viscosity (ML 1+4 @ 100 °C) | MU | 41-49 | ASTM D1646 |
| Cis Content | wt% | MIN 96 | Internal Method |
| Volatile Material | wt% | MAX 0.75 | ASTM D1416 |
| Ash Content | wt% | MAX 0.3 | ASTM D1416 |

¹ 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.

Typical Properties-Compounds²

| Typical Properties | Units | Values | Test method |
|-------------------------------|---------------------|---------|---------------|
| Compound Mooney Viscosity | MU | MAX 77 | ASTM D - 1646 |
| Tensile Strength(35 Min) | Kgf/cm ³ | MIN 150 | ASTM D412 |
| Elongation at Break (35 Min) | % | MIN 440 | ASTM D412 |
| 300% Modulus at 145 °C | | | |
| 25 Min | Kgf/cm ³ | 68-108 | ASTM D412 |
| 35 Min | Kgf/cm ³ | 74-114 | ASTM D412 |
| 50 Min | Kgf/cm ³ | 74-114 | ASTM D412 |

² Compounding formula according ASTM D-3189.

PACKAGING

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

TRANSPORTATION

TJPC 1220 is typically transported in covered road trucks, in covered railway carriages and in standard shipping containers. TJPC 1220 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.

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