

PBR-1220

High-Cis Polybutadiene Rubber – PBR

Product Description

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).

Applications

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

| PARAMETERS | UNITS | TYPICAL VALUES | TEST METHODS |
|-------------------|-------|----------------|-----------------|
| ML1+4@100°C | MU | 41-49 | ASTM D1646 |
| CIS CONTENT | WT% | MIN 96 | INTERNAL METHOD |
| VOLATILE MATERIAL | WT% | MAX 0.75 | ASTM D - 1416 |
| ASH CONTENT | WT% | MAX 0.3 | ASTM D - 1416 |

Typical Properties- Compounds

| TYPICAL PROPERTIES | UNITS | TYPICAL VALUES | TEST METHODS |
|-------------------------------|---------|----------------|---------------|
| COMPOUND MOONEY VISCOSITY | MU | MAX 77 | ASTM D - 1646 |
| TENSILE STRENGTH(35 MIN) | Kgf/cm3 | MIN 150 | ASTM D412 |
| ELONGATION AT BREAK (35 MIN) | % | MIN 440 | ASTM D412 |
| 300% MODULUS AT 145 °C | | | |
| 25 MIN | | 68-108 | |
| 35 MIN | Kgf/cm3 | 74-114 | ASTM D412 |
| 50 MIN | | 74-114 | |

Compounding formula according ASTM D-3189.

Producer: Takht-e Jamshid Petrochemical Co (TJPC)

Packing: 35 ±0.5 KG bales wrapped with polyethylene film.

36 bales per crate (1260±18 KG).

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