

TJPC 1220C

High Cis Polybutadiene Rubber – (PBR)

CHARACTERISTICS

High-Cis Polybutadiene rubber "TJPC 1220C" 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 1220C" 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 (T_g typically $<-90^{\circ}\text{C}$).

APPLICATION

TJPC 1220C 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	43-53	ASTM D1646
Cis Content	wt%	MIN 96	Internal Method
Volatile Material	wt%	MAX 2	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 140	ASTM D412
Elongation at Break (35 Min)	%	MIN 420	ASTM D412
300% Modulus at 145 °C			
25 Min	Kgf/cm ³	65-103	ASTM D412
35 Min	Kgf/cm ³	70-105	ASTM D412
50 Min	Kgf/cm ³	70-110	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 1220C is typically transported in covered road trucks, in covered railway carriages and in standard shipping containers. TJPC 1220C 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.

