

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 Physical Properties-Raw Materials¹

Parameters	Units	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- Compounds²

Typical Properties	Units	Values	Test methods
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		74-114	
50 Min		74-114	

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.

² Compounding formula according ASTM D-3189.

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PACKAGING

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

TRANSPORTATION

TJPC1220 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.

PRODUCER

Takhte-Jamshid Petrochemical CO (TJPC)

This document is of an informative character. The information given herein is based on the present state of our knowledge and experience. It makes neither product properties nor qualitative parameters guarantee and cannot be used as a basis of any claims. The information provided cannot be used for any mixtures with any other substances. Product should be transported, stored and used in accordance with valid regulations and good occupational hygiene practice.

Making use of the information as well as product application is beyond the producer control and determination of the safe conditions of use is the sole responsibility of a customer