

## TJPC 1220

### High Cis Polybutadiene Rubber-(PBR)

#### CHARACTERSTICS

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  $<-90^{\circ}\text{C}$ ).

#### 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 Properties			
Typical Properties	Units	Values	Test method
Mooney viscosity (ML 1+4 @ 100		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

Typical properties	Units	Values	Test method
Compound Mooney Viscosity		MAX 77	ASTM D - 1646
Tensile Strength (35 Min)	Kgf/cm <sup>3</sup>	MIN 150	ASTM D412
Elongation at Break (35 Min)		MIN 440	ASTM D412
<b>300<sup>0</sup>/0 Modulus at 145 °c</b>			
25 Min	K f/cm <sup>3</sup>	68-108	ASTM D412
35 Min	Kgf/cm <sup>3</sup>	74—114	ASTM D412
50 Min	K f/cm <sup>3</sup>	74-114	ASTM D412

<sup>1</sup>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.Compounds<sup>2</sup> **H&S**<sup>2</sup>  
Compounding formula according ASTM D—3189.

#### PACKAGING

—5 35±0.5 KG bales wrapped with polyethylene film. → 36 bales per crate (1260±18 KG).

**STORAGE:** Product should be stored in sheltered conditions away from direct sunlight away from radiant heating elements and the temperature should not exceed 30<sup>0</sup>C.

**Aydin Cure**

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