Technical Data Sheet

PBR 1220

Poly butadiene Rubber (PBR)

High-Cis Polybutadiene rubber “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. 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.

Applications

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

Typical Properties[1]	Units	Value	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[2]	Units	Value	Test Method
Compound Mooney viscosity	MU	Max 77	ASTM D1646
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	Kgf/cm3	68-108	ASTM D412
35 min	Kgf/cm3	74-114	ASTM D412
50 min	Kgf/cm3	74-114	ASTM D412

[2]Compounding formula according ASTM D-3189

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