

POLY BUTADIENE RUBBER

High CIS 1,3 - Polybutadiene Rubber (Grade 1220)

* Raw Material

Typical Properties	Test Method	Unit	Value
CIS Content	ZEON R - 130A	WT%	MIN 97
Raw Mooney Viscosity	ASTM D - 1646	ML- 4	41 -49
Volatile Material	ASTM D - 1416	WT%	MAX 0.5
Ash Content	ASTM D - 1416	WT%	MAX 0.3

** Compound Properties

Typical Properties	Test Method	Unit	Value
Compound Mooney Viscosity	ASTM D - 1646	ML- 4	MAX 77
Tensile (35 min)	ASTM D - 412	Kgf/cm3	MIN 150
Elongation (35 min)	ASTM D - 412	%	MIN 440
300% Modulus at 145°C	ASTM D - 412	Kgf/cm3	- - -
25 min			68 - 108
35 min			74 - 114
50 min			74 - 114
Rheometer at 160°C	ASTM D - 3189	lbf in	32.0 - 40.0
MH			
ML			
TS-1			
T50			
T90			8.3 - 13.1

Compound Recipe

Typical Properties	Test Method	Unit	Value
Raw BR - 1220	ASTM D - 3189	PART	100
HAF Carbon (IRB No.6)		PART	60
Zinc Oxide		PART	3
Stearic Acid		PART	2
Accelerator (TBBS)		PART	0.9
Sulfur		PART	1.5
Highly Aromatic Oil		PART	15
Vulcanization Temperature		°C	145

Other Specifications

Typical Properties	Test Method	Unit	Value
Anti Oxidant	Non Staining - High Quality		
Catalyst Type	Cobalt		
Packaging	35 Kg Bales, Wrapped in 50 Micron LDPE Film & Each 36 Bales are in a Box Pallet		

*Certified Properties

**Values shown are averages & are not to be considered as product specifications.

Specification of chemicals used in the compound

High Cis1,3-Polybutadiene (Grade 1220)

Carbon Black HAF:	IRB No. conforming to NBS-SRM No. 378
Zinc Oxide (White Zinc):	NBS-SRM No. 370 JIS K-1410 No. 1
Stearic Acid:	NBS-SRM No. 372 Fractional fatty acid of JIS K- 3341
Oil:	ASTM oil type 103 (sansen 4240 of Japan sun oil Co.)
Accelerator (TBBS):	U.S. monanto's santocure-NS conforming to NBS-SRM No. 384
Sulfur:	NBS-SRM No. 371, one type of JIS K-6222.325 meah product

Composition:

BR-1220 is a stereo specific high Cis-1, 3 polybutadiene. It is manufactured by a solution process using a cobalt catalyst which produces polymers with a low level of impurities. BR-1220 contains a non-staining high quality stabilizer system, too.

Applications:

BR-1220 is used for the production of tire, footwear, belts, rubber hoses & other mechanical rubber products.

Storage:

BR-1220 should be stored in an adequately ventilated area where it will not be subjected to sunlight, extreme temperatures or sources of ignition.

Under the above-mentioned conditions BR-1220 should have a storage life of at least 6 months from the date of production.

