



ISO 9001:2000
Certificate No.: CH98/8032

ISO 14001:2004
Certificate No.: CH03/0112

OHSAS 18001:1999
Certificate No.: CH05/0675

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High Cis1,3-Polybutadiene (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 Matter	ASTM D-1416	% Wt	Max. 0.5		
Ash Content	ASTM D-1416	% Wt	Max. 0.3		
**Compound					
Compound Mooney Viscosity	ASTM D-1646	ML-4	Max. 77		
Tensile (35 min)	ASTM D-412	Kgf/cm2	Min. 150		
Elongation (35 min)	ASTM D-412	%	Min. 440		
300% Modulus at 145 °C			68-108		
25 Min.	ASTM D-412	Kgf/cm2	74-114		
35 Min.			74-114		
50 Min.					
Rheometer at 160 °C	ASTM D-3189		32.0-40.0		
MH				lbf in	5.2-11.2
ML				lbf in	2.1-6.1
TS-1				Min	6.0-10.4
T50				Min	8.3-13.1
T90				Min	
Compound Recipe					
Raw BR-1220	ASTM D-3189	Part	100		
HAF Carbon (IRB No. 6)		"	60		
Zinc Oxide		"	3		
Stearic Acid		"	2		
Accelerator (TBBS)		"	0.9		
Sulfur		"	1.5		
Highly Aromatic Oil		"	15		
Vulcanization Temperature		°C	145		
Other Specifications					
Anti Oxidant	Non Staining - High Quality				
Catalyst Type	Cobalt				
Packaging	35 Kg Bales, Wrapped In 50 Micron LDPE Film & each 30 bales are in a box pallet				

* Certified properties

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



ARAB POLYMERIZATION COMPANY



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High Cis1,4-Polybutadiene (Grade 1220)

❖ Specification of Chemicals Used In the Compound:

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. monaanto'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-motional conditions **BR-1220** should have a storage life of at least 6 months from the date of production.





شرکت پتروشیمی سازند (سهامی عام)

پلی بوتادین رابر 1210S

واحد	نتیجه	ارائه	خواص فیزیکی
Wt%	Min. 97	اجبری	Cis Content
ML4	35 - 45	اجبری	Mooney Viscosity
Wt%	Max0.5	اجبری	Volatile Matter
WT%	Max0.3	اجبری	Ash Content
-	-	اختیاری	Color
Cps	50 - 70	اجبری	Solution Viscosity
خواص مکانیکی			
-	-	اختیاری	Compound Mooney Viscosity
-	-	اختیاری	Compound Tensile Strength
-	-	اختیاری	Compound Tensile Elongation
-	-	اختیاری	Compound Tensile Modulus
خواص حرارتی			
Min	>25	اجبری	Glass Transition Temperature

تمام مقادیر Typical می باشد.

دارای گواهینامه‌های بین‌المللی



دفتر مرکزی: تهران، خیابان ولیعصر، بالاتر از میرداماد، تابلان غربی شماره ۶۸
تلفن: ۰۲۱-۸۲۱۲۰ فکس: ۰۲۱-۸۲۱۲۱
مجتمع: اراک، کیلومتر ۲۲ جاده بروجرد کدپستی: ۳۸۶۷۱۴۳۱۱۱
تلفن: ۰۸۶-۳۲۶۳۰ فکس: ۰۸۶-۳۲۶۳۱