



Arak Petrochemical Company



ISO 9001:2000
Certificate No.: CH98/8032

ISO 14001:2004
Certificate No.: CH03/0112

OHSAS 18001:1999
Certificate No.: CH05/0675

Address:

No. 3, Taban St.,
Vanaq Sq., Vali-e-asr
St.,
Tehran - Iran

Tel:

(+98 21)8867 4127

Fax:

(+98 21)8867 4126

Web-site:

www.arpc-ir.net

E-mail:

Sales@arpc-ir.net

High Cis1,4-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	lbf in lbf in Min Min Min	32.0-40.0	
MH			5.2-11.2	
ML			2.1-6.1	
TS-1			6.0-10.4	
T50			8.3-13.1	
T90				
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.



Arak Petrochemical Company



ISO 9001:2000
Certificate No.: CH98/8032

ISO 14001:2004
Certificate No.: CH03/0112

OHSAS 18001:1999
Certificate No.: CH05/0675

Address:

No. 3, Taban St.,
Vanaq Sq., Vali-e-asr
St.,
Tehran - Iran

Tel:

(+98 21)8867 4127

Fax:

(+98 21)8867 4126

Web-site:

www.arpc-ir.net

E-mail:

Sales@arpc-ir.net

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 Zine): 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-1,4 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 12 months from the date of production.