

## KKPC KOSYN KBR 01 Polybutadiene Rubber (High cis BR)

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE)

### Material Notes:

**Polybutadiene Rubber (High cis BR) Characteristics:** Polybutadiene Rubber (BR), which has three kinds of bond structure of cis-1,4, trans-1,4, vinyl, is simple polymer made from 1,3-butadiene by solution polymerization, and it is classified to High cis BR and Low cis BR according to the cis-1,4 content. High cis BR containing over 94% cis-1,4 is superior in abrasion resistance, elasticity, age resistance and water resistance. As the secondary transition temperature is very low (about -100°C), it is most widely utilized together with SBR. **Applications:** Tires, shoes, belting, rubber hose, industrial rubber products. **Additional Notes:** Stabilizer: Non-Polluting cis-1,4 Contents: 95% Volatile Matter: 0.2% Ash Content: 0.2% This product is so sensitive to sunlight and humidity that it can be tarnished and caused deterioration of quality if exposed. It is recommended to store it in cool and shady area lest it should be exposed to direct sunlight. Do not expose to incompatible materials or contaminants. Data provided by Korea Kumho Petrochemical Co., Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_KKPC-KOSYN-KBR-01-Polybutadiene-Rubber-High-cis-BR.php](http://www.lookpolymers.com/polymer_KKPC-KOSYN-KBR-01-Polybutadiene-Rubber-High-cis-BR.php)

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in <sup>3</sup>	Not Compounded
Mooney Viscosity	45	45	Raw; ML1+4
	@Temperature 100 °C	@Temperature 212 °F	
	55	55	Compounded; ML1+4; BR 100, ZnO 3, Stearic Acid 2, HAF Black (IRB#6) 60, Aromatic Oil 15, Accelerator TBBS 0.9, Sulfur 1.5 Total: 182.4
	@Temperature 100 °C	@Temperature 212 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	Cured; JIS-A
Tensile Strength, Ultimate	19.4 MPa	2820 psi	Cured
Elongation at Break	620 %	620 %	Cured
300% Modulus	0.00755 GPa	1.10 ksi	Cured
Rebound	54 %	54 %	ASTM
Flex Crack Resistance	5000	5000	De Mettia Flexometer Cut Growth: 2mm --> 15mm, Flexes
Tear Strength	36.3 kN/m	207 pli	B-type
Abrasion	0.0030	0.0030	Akron type Tester (cc/1000rev)
Compression Set	4.0 %	4.0 %	Permanent Set
	15 %	15 %	

Mechanical Properties

@Temperature 70.0  
Metric

@Temperature 158 A°F  
English

70A°C / 22 hrs, 25%, def  
Comments

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China