

KKPC KOSYN KBR 31 Polybutadiene Rubber (High cis BR)

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

Material Notes:

Polybutadiene Rubber (High cis BR) Characteristics: KBR 31 contains an aromatic oil additive. 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 about -100° low, it is most widely utilized together with SBR. **Applications:** Conveyor belting, tires (superior for snow tire tread). **Additional Notes:** Extender Oil: 37.5; Aromatic Stabilizer: Non-Polluting cis-1,4 Contents: 95% Volatile Matter: 0.3% Ash Content: 0.1% 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-31-Polybutadiene-Rubber-High-cis-BR.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	Not Compounded
Mooney Viscosity	35	35	Raw; ML1+4
	@Temperature 100 Â°C	@Temperature 212 Â°F	
	71	71	Compounded; ML1+4; KOSYN KBR31 137.5, ZnO 3, Stearic Acid 2, HAF Black (IRB#6) 82.5, Accelerator TBBS 1.24, Sulfur 1.5 Total: 227.7
	@Temperature 100 Â°C	@Temperature 212 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	57	57	Cured; JIS-A
Tensile Strength, Ultimate	18.8 MPa	2730 psi	Cured
Elongation at Break	640 %	640 %	Cured
300% Modulus	0.00804 GPa	1.17 ksi	Cured
Rebound	47 %	47 %	ASTM
Flex Crack Resistance	6000	6000	De Mettia Flexometer Cut Growth: 2mm --> 15mm, Flexes
Tear Strength	69.6 kN/m	398 pli	B-type
Abrasion	0.0040	0.0040	Akron type Tester (cc/1000rev)
Compression Set	4.0 %	4.0 %	Permanent Set

Mechanical Properties	Metric	English	Comments
	@Temperature 70.0 °C	@Temperature 158 °F	70A °C / 22 hrs, 25%, def

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