

KBR-01, KBR-01L, KBR-01N

High cis Butadiene Rubber (HBR)

Product Introduction

- Kumho KBR-01, 01L and 01N are solution high-cis polybutadiene rubber (HBR) produced with Ziegler-Natta catalyst based.
- They have more than 96% of 1,4-cis content.
- Very low glass transition temperature around -100°C

Product Properties

Property	Typical value			Test Method
	KBR-01	KBR-01L	KBR-01N	
ML1+4@100 °C	45	30	35	ASTM D 1646
cis content (%)	> 96	> 95	> 95	FT-IR METHOD
Volatile matter content (%)	Max 0.5	Max 0.5	Max 0.5	ASTM D 5668
Ash content (%)	Max 0.2	Max 0.2	Max 0.2	ASTM D 5667
Compound ML1+4@100 °C	55	40	45	ASTM D 1646
Tensile strength (kg/cm ²)	198	160	173	ASTM D 412
Elongation (%)	540	550	550	ASTM D 412
300% modulus (kg/cm ²)	91	80	80	ASTM D 412

* Test method : ASTM D 3189 method B

Carbon black : IRB#7, Petroleum oil : Aromatic

Press cured for 35min at 145°C

Characteristics and Applications

- Excellent abrasion resistance, resiliency, aging resistance, and weather resistance make them the most widely used synthetic rubber along with SBR.
- Typical applications are tires, footwears, golf balls, belts, rubber hoses, and other mechanical rubber products.

Manufacturer location

- Yeosu plant in Korea

Product safety

- Relevant safety data and references can be found in the safety data sheet.

Shelf life/Conditions

- 2 years from the production date at temperatures not exceeding 35°C , keeping away from direct sunlight, humidity

Packaging

- Bale weight : 35kg (Wrapped by polyethylene film)
- Box weight : 1,050kg (30 bales)