

## KBR-01, KBR-01L

### High cis Butadiene Rubber (HBR)

#### Product Introduction

- Kumho KBR-01 and 01L are solution high-cis polybutadiene rubber (HBR) produced with Ziegler-Natta catalyst based.
- They have more than 95% of 1,4-cis content.
- Very low glass transition temperature around -100 °C

#### Product Properties

Property	Typical value		Test Method
	KBR-01	KBR-01L	
ML1+4@100 °C	45	30	ASTM D 1646
cis content (%)	> 96	> 95	FT-IR METHOD
Volatile matter content (%)	Max 0.5	Max 0.5	ASTM D 5668
Ash content (%)	Max 0.2	Max 0.2	ASTM D 5667
Compound ML1+4@100 °C	55	40	ASTM D 1646
Tensile strength (kg/cm <sup>2</sup> )	198	160	ASTM D 412
Elongation (%)	540	550	ASTM D 412
300% modulus (kg/cm <sup>2</sup> )	91	80	ASTM D 412
Specific gravity (g/cm <sup>3</sup> )	0.91	0.91	ASTM D 297

\* 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, footwear, 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

- 1 year 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)

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