

1. Product Introduction

KUMHO KBR is a solution high-cis polybutadiene polymer(BR) produced with Ziegler-Natta catalyst based. KUMHO KBR has a 1,4-cis content of more than 96%. In addition to the very low glass transition temperature around -100°C, it has excellent abrasion resistance, resiliency, aging resistance, and weather resistance which has made it the most widely used synthetic rubber along with SBR.

We mainly produce KUMHO KBR 01, 01L. KUMHO KBR 01 and 01L are usually used in tires, footwears, golf ball, belt, rubber hoses, and other mechanical rubber products.

2. Product Application

Grade	CAS NO	Packages	Applications
KBR 01	9003-17-2	35kg / Bale	Tire, Footwears, Golf ball, Belt,
KBR 01L		1.05MT / Box	Mechanical rubber products

3. Handling Precautions

The direct expose to sunlight and humidity may cause discoloration or quality deterioration. Keep the product away from direct sunlight, humidity and chemicals and store in a cool, dry place at temperatures below 35°C.





4. Typical Properties of KUMHO KBR

ltems Grade	KBR 01	KBR 01L	
cis-1,4 Content (%)	min. 96.0		
Raw Mooney Viscosity ML₁+4 (100°C)	45	30	
Stabilizer	Non-Staining		
Volatile Matter (%)	max. 0.5		
Ash Content (%)	max. 0.2		
Specific Gravity	approx. 0.91		
Mooney Viscosity ML₁₊₄ (100°C) of Compounded Rubber*¹)	55	43	
Rheometer Properties (160°C, ARC±1°)*2)			
ML (lbf · in)	8.3	7.0	
MH (lbf · in)	33.5	29.9	
Ts 01 (Min)	3.8	4.9	
T' 50 (Min)	8.5	9.2	
T' 90 (Min)	11.3	12.2	
300% Modulus (kgf/cm²)*3)	91	82	
Tensile Strength (kgf/cm²)*3)	198	174	
Elongation (%)*3)	540	550	

¹⁾ Test formulation according to ASTM-D 3189 (based on IRB #7)

NOTE) The above data are typical value; therefore, they may differ slightly from the physical properties of the supplied product.

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²⁾ Monsanto Rheometer ODR,160°C

³⁾ Press cured 35minutes at 145℃