

# KUMHO KBR

LBR(Low cis Butadiene Rubber)

## 1. Product Introduction

The 1,4-cis content of Low cis BR (LBR) can be controlled by the method of production and the type of catalyst. KUMHO KBR has 34.5% of 1,4-cis content. It is used as a base polymer in the production of HIPS (High Impact Polystyrene), which is the main material applied to the manufacture of cabinets for home appliances, interior goods, toys, and everyday goods, due to its excellent elasticity and 1,2-vinyl content around 14.5%, giving it excellent reactivity. In addition, it is used in motorcycle tires, footwears, and general mechanical products.

KUMHO KBR 710S has a mooney viscosity of around 50, 34.5% of 1,4-cis and 14.5% of 1,2-vinyl content. When melted in styrene to 5% concentration, it is transformed into a bright color rubber with the tone of APHA color 5. Having a low gel content and solution viscosity near 173 cps, KUMHO KBR 710S is used as a base polymer of HIPS products.

## 2. Product Application

Grade	CAS NO.	Packages	Applications
KBR 710S KBR 710H	9003-17-2	35Kg / Bale 1.05MT / Box	For manufacturing HIPS products

## 3. Handling Precautions

KBR should be stored in a cool, dry place at temperatures below 35°C. Exposure to light must be avoided.

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KUMHO PETROCHEMICAL

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## 4. Typical Properties of KUMHO KBR

Items	Grade	KBR 710S	KBR 710H
1,4-cis Content (%)		34.5	34.5
1,2-vinyl Content (%)		14.5	14.5
Mooney Viscosity (ML <sub>1+4</sub> , 100°C)		50	68
Volatile Matter (%)		max. 0.7	max. 0.7
Ash Content (%)		max. 0.1	max. 0.1
Toluene Insoluble Gel (%)		max. 0.02	max. 0.02
Gel Rank		A	A
Color (APHA)		max. 15	max. 15
Cold Flow (mg/min)		max. 1.5	max. 1.5
Viscosity of Solution (cps, 5% Styrene)		173	250

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

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