

KBR-710S, KBR-710H

Low cis Butadiene Rubber (LBR)

Product Introduction

- Kumho KBR-710S and KBR-710H are solution low-cis polybutadiene rubber (LBR) produced with alkyl lithium catalyst based.
- They have 34.5% of cis content and 14.5% of vinyl content.
- They are used as a base polymer in 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 their excellent elasticity and vinyl content giving good reactivity.

Product Properties

Property	Typical value		Test Method
	KBR-710S	KBR-710H	
ML1+4@100°C	50	68	ASTM D 1646
cis content (%)	34.5	34.5	Morero method
Vinyl content (%)	14.5	14.5	Morero method
Volatile matter content (%)	Max 0.7	Max 0.7	ASTM D 5668
Ash content (%)	Max 0.1	Max 0.1	ASTM D 5667
Gel content (%)	Max 0.02	Max 0.02	ASTM D 3616
Solution viscosity	173	250	5% in SM, 25°C
APHA color	Max 15	Max 15	ASTM D 1209

Characteristics and Applications

- When melted in styrene at 5% concentration, it is transformed into a bright color with the tone of APHA color 5.
- Very low gel content (Max 0.02%)
- Typical applications are HIPS, motorcycle tires, footwears, and general mechanical 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 polystyrene film)
- Box weight : 1,050kg (30 bales)