

NdBR-40, NdBR-60

Ultra High cis Polybutadiene Rubber (NdBR)

Product Introduction

- Kumho NdBR is ultra high cis polybutadiene rubber, produced by 1, 3-butadiene polymerization with a novel neodymium catalyst.
- They have more than 97% of 1,4-cis content.
- Very low glass transition temperature around -100 °C

Product Properties

Property	Typical value	Typical value	Test Method
	NdBR-40	NdBR-60	
ML1+4@100 °C	43	63	ASTM D 1646
cis content (%)	> 97	> 97	FT-IR METHOD
Volatile matter content (%)	Max 0.5	Max 0.5	ASTM D 5668
Ash content (%)	Max 0.5	Max 0.5	ASTM D 5667
Compound ML1+4@100 °C	65	93	ASTM D 1646
Tensile strength (kg/cm ²)	220	230	ASTM D 412
Elongation (%)	520	510	ASTM D 412
300% modulus (kg/cm ²)	100	110	ASTM D 5774

*Test method : ASTM D 3189 method B

Carbon black : IRB#7, Petroleum oil : Aromatic

Press cured for 35min at 145 °C

Characteristics and Applications

- Kumho NdBR provides excellent abrasion resistance, low heat build-up and high resilience, which are very much demanded property for tire as well as other applications.
- Typical applications are tires, golf balls, footwears, belts, rubber hoses.

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)

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