

KUMHO NdBR

(Ultra High cis Polybutadiene)

1. Product Applications

Grade	CAS NO	Packages	Applications
NdBR-40	9003-17-2	35kg / Bale	Tire, Footwears, Golf ball, Belt
NdBR-60		1.05 MT / Box 1.26 MT / Box	

2. Typical Properties

Item	Grade	NdBR-40	NdBR-60
cis-1,4 content (%)		min. 97.0	
Raw Mooney Viscosity (ML _{1+4,100°C})		43	63
Stabilizer		Non-staining	
Volatile Matter (%)		max. 0.5	
Ash contents (%)		max. 0.5	
Specific Gravity		approx. 0.91	
Mooney Viscosity (ML _{1+4,100°C}) of compounded Rubber ^{*1)}		68	93
Rheometer Properties (160°C, ARC° ± 1°C) ^{*2)}			
ML (lbf · in)		9.4	12.5
MH (lbf · in)		40.5	43.9
Ts01 (min)		3.7	3.4
T 50 (min)		8.6	8.4
T 90 (min)		11.3	11.1
300% Modulus (kg /cm ²) ^{*3)}		100	110
Tensile Strength (kg /cm ²) ^{*3)}		220	230
Elongation (%) ^{*3)}		520	510

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

*2) Monsanto Rheometer ODR, 160°C

*3) Press cured 35minutes at 145°C

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