



1. Product Application

Grade	Packages	Applications
KNB 1845	35kg / Bale, 1.05 MT / Box	Packings, Gaskets, Hoses, Rolls, Shoe soles and heels, Other applications requiring oil resistance
KNB 25LM		
KNB 25M		
KNB 25LH		
KNB 25H		
KNB 2875		
KNB 3345		
KNB 35LL		
KNB 35L		
KNB 35LM		
KNB 35M		
KNB 35H		
KNB 0230		
KNB 0230L		
KNB 40M		Packings, Gaskets, Hoses, Rolls, Shoe soles and heels, Other applications requiring oil resistance, Low mould fouling
KNB 40H		
KNB 3430G		
KNB 3445G		



2. Typical Properties of KUMHO NBR

Grade	KNB 1845	KNB 25LM	KNB 25M	KNB 25LH	KNB 2875	KNB 25H	KNB 3345	KNB 35LL	KNB 35L	KNB 35LM	KNB 35M	KNB 35H	KNB 40M	KNB 40H	KNB 0230	KNB 0230L	KNB 3430G	KNB 3445G
Items																		
Bound AN (%)	18	28					33	34					41		35		34	
Raw MV (ML 1+4, 100)	45	50	60	70	75	80	45	33	41	50	60	80	60	80	56	42	30	45
Specific Gravity	0.93	0.96					0.97	0.98					1.00		0.98		0.98	
Compound Properties *1)																		
Comp'd MV (ML 1+4, 100)	70	73	90	101	109	114	67	54	66	78	90	110	92	113	80	64	50	65
Rheometer (160 , ARC ± 1°)																		
ML (lbf • in)	8.9	14.1	15.7	18.0	19.3	21.0	9.9	9.7	10.4	11.9	15.5	16.5	11.5	13.9	11.6	10.9	13.0	15.5
MH (lbf • in)	36.4	40.4	41.0	42.0	43.0	43.5	39.5	38.9	40.2	41.4	44.0	46.3	41.9	45.1	43.2	42.7	46.0	45.0
Ts 1 (Min.)	3.2	3.0	2.9	3.3	3.1	3.0	3.0	3.8	3.1	2.2	2.0	2.2	3.2	2.7	2.3	2.6	3.1	3.0
T' 50 (Min.)	6.0	4.7	4.3	4.9	4.7	4.7	5.8	6.0	5.2	4.2	4.2	4.0	6.6	6.2	3.8	4.0	5.5	5.0
T' 90 (Min.)	12.0	17.0	16.9	16.0	16.5	15.6	16.7	16.9	16.3	15.3	16.3	16.1	19.6	20.1	12.9	12.4	17.0	16.5
*2)																		
300% Modulus (kg /cm²)	110	140	155	168	170	175	145	132	141	148	153	168	160	170	160	150	125	135
Tensile Strength (kg /cm²)	240	275	285	285	285	285	310	300	310	313	327	334	345	360	300	295	290	320
Elongation (%)	500	510	480	440	430	400	530	570	550	530	520	500	560	540	500	510	520	550
Hardness (Shore-A)	70	73	73	73	73	73	74	74	74	74	74	74	75	75	74	74	73	73
ASTM #1 Oil																		
Immersion Change *3)																		
300% Modulus (%)		23	22	24	24	24		42	35	39	40	43	45	47	40	38		
Tensile Strength (%)		-7	-8	-8	-9	-10		-8	-13	-6	-6	-4	-1	-1	-3	-3		
Elongation (%)		-20	-20	-23	-20	-18		-29	-28	-23	-21	-20	-26	-29	-25	-24		
Hardness (Change)		-4	-4	-4	-3	-3		0	0	0	-1	0	4	4	-1	-1		
Volume (%)		2	2	2	3	3		-1	0	0	0	0	0	-1	0	0		

* 1) NBR 100, ZnO 3, S/A 1, HAF Black (IRB#8) 40, Accelerator TBBS 0.7, Sulfur 1.5

* 2) 150 × 40 Min. Press Vulcanization

* 3) 100 × 70hrs, Change Rate

* 4) KNB Products-Nitrosamine Free

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