



Typical Properties of NBR

Items / Grade	NBR 1845	NBR 25LM	NBR 25M	NBR 25LH	NBR 25H	NBR 3345	NBR 35LL	NBR 35L	NBR 35LM	NBR 35M	NBR 35H	NBR 40M	NBR 40H	NBR 0230	NBR 0230L	NBR 3430G	NBR 3445G
Bound AN (%)	18	28				33	34					41		35		34	
Raw MV (ML ₁₊₄ , 100°C)	45	50	60	70	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)}																	
Compound MV (ML ₁₊₄ , 100°C)	70	73	90	101	114	67	54	66	78	90	110	92	113	80	64	50	65
Rheometer (160°C, ARC ± 1°)																	
ML (lbf *in)	8.9	14.1	15.7	18.0	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	43.5	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	3.0	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	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	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 (kgf/cm ²)	110	140	155	168	175	145	132	141	148	153	168	160	170	160	150	125	135
Tensile Strength (kgf/cm ²)	240	275	285	285	285	310	300	310	313	327	334	345	360	300	295	290	320
Elongation (%)	500	510	480	440	400	530	570	550	530	520	500	560	540	500	510	520	550
Hardness (Shore-A)	70	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		42	35	39	40	43	45	47	40	38		
Tensile Strength (%)		-7	-8	-8	-10		-8	-13	-6	-6	-4	-1	-1	-3	-3		
Elongation (%)		-20	-20	-23	-18		-29	-28	-23	-21	-20	-26	-29	-25	-24		
Hardness (Change)		-4	-4	-4	-3		0	0	0	-1	0	4	4	-1	-1		
Volume (%)		2	2	2	3		-1	0	0	0	0	0	-1	0	0		

*1) NBR 100, ZnO 3, S/A 1, HAF Black (IRB#7) 4, Accelerator TBBS 0.7, Sulfur 1.5 Total: 146.2

*2) 150°C x 40 Min. Press Vulcanization

*3) 100°C x 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.