



Typical Properties

Item \ Grade	1500	1500NF	1500M	1500S	1502LL	1502	1502W	1502NF	1502G	1507L	1507	1507H	1712P	1712L	1712C	1712	1712H	1712G	1712NF	1721	1724	1745	1778K	1723L	1723C	1723	1723G	1739	1745T	1763	1769	1783	1789	1793	1799																													
Bound Styrene (%)																					40.0	40.0	45.0	23.5	23.5	23.5	23.5	40.0	45.0	23.5	40.0	23.5	40.0	23.5	40.0																													
Extender Oil													Paraffinic	Aromatic										Naphthenic			TDAE			Heavy			RAE		T-RAE																													
Raw MV (ML ₁₊₂ , 100°C)													37.5										50.0		37.5										53 ⁵		70		46		35		44		49		49		54		70		49		54		49		54		49		54	
Stabilizer	Staining						Non-Staining						Staining						Non-standing						Staining																																							
Emulsifier	Rosing Soap						Mixed Soap of Rosin Acid and Fatty Acid																																																									
Coagulant	Salt - Acid																																																															
Specific Gravity	0.93	0.93	0.93	0.93	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.91	0.95	0.95	0.95	0.95	0.95	0.95	0.97	0.98	0.97	0.92	0.95	0.95	0.95	0.95	0.97	0.97	0.95	0.97	0.95	0.97	0.95	0.97	0.95	0.97																											
Compound Properties																																																																
Compound MV (ML ₁₊₂ , 100°C)	82 ^{*)}	81 ^{*)}	80 ^{*)}	81 ^{*)}	75 ^{*)}	80 ^{*)}	80 ^{*)}	80 ^{*)}	80 ^{*)}	60 ^{*)}	64 ^{*)}	71 ^{*)}	60 ^{*)}	52 ^{*)}	59 ^{*)}	63 ^{*)}	65 ^{*)}	66 ^{*)}	63 ^{*)}	68 ^{*)}	60 ^{*)}	77 ^{*)}	57 ^{*)}	52 ^{*)}	59 ^{*)}	63 ^{*)}	66 ^{*)}	68 ^{*)}	77 ^{*)}	63 ^{*)}	68 ^{*)}	63 ^{*)}	68 ^{*)}	63 ^{*)}	68 ^{*)}	63 ^{*)}	68 ^{*)}																											
Rheometer (160°C, ARC ± 1)																																																																
ML (lb/in)	15.1	15.5	15.5	15.6	14.3	15.4	15.7	15.7	15.6	11.7	12.3	12.8	12.0	11.1	12.3	13.5	13.6	13.6	13.8	12.7	12.7	12.8	13.5	11.5	12.4	12.1	12.0	12.0	13.0	12.0	11.8	12.1	12.1	12.1	12.1	12.1																												
MH (lb/in)	49.8	50.3	50.3	49.2	49.6	51.7	51.5	50.2	51.4	47.6	47.9	47.6	35.3	34.7	35.6	37.0	37.4	37.7	37.7	35.5	35.1	38.8	36.0	35.4	36.3	37.3	37.3	35.4	35.3	36.2	35.7	34.5	36.3	35.9	35.0																													
ts 1 (Min.)	4.8	4.9	5.3	5.1	4.4	4.5	4.5	4.3	4.3	4.7	4.2	4.7	5.1	5.9	6.3	5.8	6.1	5.7	6.0	6.5	6.7	6.0	5.7	6.3	6.4	6.1	6.1	7.1	6.3	7.1	7.4	6.2	7.5	6.2	7.5																													
T50 (Min.)	12.8	10.9	12.1	11.3	10.5	9.5	10.1	10.3	10.7	11.6	10.6	11.6	9.9	10.2	10.6	9.9	10.7	10.2	10.8	11.3	11.5	10.1	11.3	12.1	12.4	12.1	12.2	12.3	11.9	12.4	13.4	11.7	12.0	12.5	13.3																													
T90 (Min) ⁴⁾	22.0	19.4	21.1	20.1	19.5	18.0	19.5	19.3	19.5	20.6	19.5	20.6	17.3	17.6	18.4	17.2	18.3	17.7	17.9	19.0	19.5	17.7	20.0	19.4	19.9	19.3	19.3	20.3	19.7	20.6	22.3	20.2	21.3	20.2	21.5																													
300% Modulus (kg/cm ²)	167	164	160	161	185	206	190	187	186	167	172	183	130	102	104	108	110	110	106	108	107	123	129	110	111	115	108	115	123	102	110	105	110	110	112																													
Tensile Strength (kgf/cm ²)	300	298	297	305	293	300	297	298	286	279	284	290	230	233	232	243	243	251	240	240	232	245	221	235	235	245	242	250	245	221	240	250	260	240	249																													
Elongation (%)	500	500	500	510	430	410	440	450	450	470	470	460	550	590	570	580	570	570	590	600	570	550	460	570	570	560	510	590	550	590	620	610	620	590	620																													
Hardness (Shore - A)	72	72	72	72	72	72	72	72	72	71	71	71	60	63	63	63	63	63	63	65	66	70	60	62	61	62	62	64	70	63	64	63	66	63	64																													

- 1) SBR 100 ZnO3, S/A 1, HAF Black (IRB#7) 50, Accelerator TBBS 1.00, Sulfur 1.75 Total: 156,75
- 2) SBR 137.5 ZnO3, S/A 1, HAF Black (IRB#7) 68.75, Accelerator TBBS 1.38, Sulfur 1.75 Total: 213,38
- 3) SBR 150.0 ZnO3, S/A 1, HAF Black (IRB#7) 75, Accelerator TBBS 1.50, Sulfur 1.75 Total: 232,25
- 4) 145 °C x 35Min, Press Vulcanization
- 5) Unlimited