

# Technical Performance Parameters

		天然橡胶 (NR)	异戊橡胶 (IR)	丁苯橡胶 (SBR)	顺丁橡胶 (BR)	氯丁橡胶 (CR)	丁基橡胶 (IIR)	丁腈橡胶 (NBR)	乙丙橡胶 (EPR)	氯磺化聚乙烯 (CSM)	丙烯酸脂 (AR)	聚安脂 (UR)	硅橡胶 (Si)	氟橡胶 (FPM)	聚硫橡胶 (T)	氯化聚乙烯 (CM)
Density (rubber) .g/cm <sup>3</sup>		0.90-0.95	0.92-0.94	0.92-0.94	0.91-0.94	1.15-1.30	0.91-0.93	0.96-1.20	0.86-0.87	1.11-1.18	1.09-1.10	1.09-1.30	0.95-1.40	1.80-1.82	1.35-1.41	1.16-1.32
Tensile N/cm <sup>2</sup>	Without reinforcement	1667-2844	1961-2942	196-294	98-981	1471-1961	1373-2060	196-392	294-588	834-2403	-	-	196-490	981-1961	69-137	-
	reinforcement	2452-3432	1961-2942	1471-1961	1765-2452	2452-2648	1667-2060	1471-2942	1471-2452	681-1961	687-1177	1961-3432	392-981	1961-2158	883-1471	≥1471
(Elongation @break .%	Without reinforcement	650-900	800-1200	500-800	200-900	800-1000	650-850	300-800		--	-	-	40-300	500-700	300-700	400-500
	reinforcement	650-900	600-900	500-800	450-800	800-1000	650-1000	300-800	400-800	100-500	400-600	300-800	50-500	100-500	100-700	-
Permanent deformation after 200%*24h(%)	Without reinforcement	3-5	-	5-10	-	18	2	6.5	-	-	-	-	-	-	-	-
	reinforcement	8-12	-	10-15	-	7.5	11	6	-	-	-	-	-	-	-	-
Rebound Rate. %		70-90	70-90	60-80	70-90	50-80	20-50	5-65	50-80	30-60	30-40	40-90	50-85	20-40	20-40	-
Compression set%. 70℃X70h		10-50	10-50	2-20	2-10	2-40	10-40	7-20	-	20-80	25-90	50-100	-	5-30	-	-
Tear resistance		excellent	good-excellent	good	low-good	good-excellent	good	good	good-excellent	low-good	low	good	inadequate-low	good	low-good	excellent
Abrasive resistance		excellent	excellent	excellent	excellent	good-excellent	low-good	excellent	good-excellent	excellent	low-good	excellent	low-good	good	low-good	excellent
Curved around sexual resistance		excellent	excellent	good	excellent	good-excellent	excellent	good	good	good	good	excellent	inadequate-good	good	inadequate	-
Impact resistance		excellent	excellent	excellent	good	good	good	low	good	low-good	inadequate	excellent	low-good	劣-可	inadequate	-
Hardness (Shore A)		20-100	10-100	35-100	10-100	20-95	15-75	10-100	30-90	40-95	30-95	40-100	30-80	50-60	40-95	-
Thermal conductivity, cal/cm.s.℃		4X10 <sup>-4</sup>	-	7X10 <sup>-4</sup>	-	5X10 <sup>-4</sup>	6.45X10 <sup>-4</sup>	6X10 <sup>-4</sup>	8.5X10 <sup>-4</sup>	2.7X10 <sup>-4</sup>	-	1.6X10 <sup>-4</sup>	6X10 <sup>-4</sup>	-	-	-
Maximum temperature. ℃		100	100	120	120	150	170	170	150	150	180	80	315	315	130	-
Long-term temperature. ℃		-55/70	-55/70	-45/100	-70/100	-40/120	-40/130	-10/120	-50/130	-30/130	-10/180	-30/70	-100/250	-10/280	-10/70	90/105
Brittle temperature. ℃		-50/-70	-50/-70	-30/-60	-73	-35/-42	-30/-55	-10/-20	-40/-60	-20/-60	0/-30	-30/-60	-70/120	-10/-50	-10/-40	-
Volume resistivity. Ω.Cm		10 <sup>14</sup> -10 <sup>15</sup>	10 <sup>10</sup> -10 <sup>15</sup>	10 <sup>14</sup> -10 <sup>15</sup>	10 <sup>14</sup> -10 <sup>15</sup>	10 <sup>12</sup> -10 <sup>13</sup>	10 <sup>15</sup> -10 <sup>16</sup>	10 <sup>10</sup> -10 <sup>11</sup>	10 <sup>15</sup> -10 <sup>16</sup>	10 <sup>12</sup> -10 <sup>14</sup>	10 <sup>11</sup>	10 <sup>10</sup>	10 <sup>14</sup> -10 <sup>16</sup>	10 <sup>12</sup> -10 <sup>13</sup>	10 <sup>12</sup> -10 <sup>13</sup>	10 <sup>12</sup> -10 <sup>14</sup>
surface resistance. Ω		10 <sup>14</sup> -10 <sup>15</sup>	-	10 <sup>13</sup> -10 <sup>14</sup>	-	10 <sup>11</sup> -10 <sup>12</sup>	10 <sup>13</sup> -10 <sup>14</sup>	10 <sup>12</sup> -10 <sup>15</sup>	-	10 <sup>14</sup>	-	10 <sup>10</sup>	10 <sup>13</sup>	-	-	-