

Allowable Winding Tension

Please ensure that excessive tension is not applied during the winding process. The safe winding tension is set at approximately 40% of the breaking tension

Size (mm)	Tension			
	Breaking tension		Safe Tension	
	(N)	(gf)	(N)	(gf)
0.02	0.074	8	0.030	3
0.025	0.12	12	0.046	5
0.03	0.17	17	0.067	7
0.04	0.30	30	0.12	12
0.05	0.46	47	0.18	19
0.06	0.67	68	0.27	27
0.07	0.91	92	0.36	37
0.08	1.2	121	0.47	48
0.09	1.5	153	0.60	61
0.10	1.8	188	0.74	75
0.11	2.2	228	0.89	91
0.12	2.7	271	1.1	109
0.13	3.1	319	1.3	127
0.14	3.6	369	1.4	148
0.15	4.2	424	1.7	170
0.16	4.7	483	1.9	193
0.17	5.3	545	2.1	218
0.18	6.0	611	2.4	244

Size (mm)	Tension			
	Breaking tension		Safe Tension	
	(N)	(gf)	(N)	(gf)
0.19	6.7	680	2.7	272
0.20	7.4	754	3.0	302
0.21	8.2	831	3.3	333
0.22	8.9	912	3.6	365
0.23	9.8	997	3.9	399
0.24	11	1086	4.3	434
0.25	12	1178	4.6	471
0.26	13	1274	5.0	510
0.27	13	1374	5.4	550
0.28	14	1478	5.8	591
0.29	16	1585	6.2	634
0.30	17	1696	6.7	679
0.32	19	1930	7.6	772
0.35	23	2309	9.1	924
0.37	25	2581	10	1032
0.40	30	3016	12	1206
0.45	37	3817	15	1527
0.50	46	4712	18	1885

