



## Nylon Brait

Nylon Brait combines braiding technology with plaited rope optimizing the best of both rope styles. Nylon Brait's most outstanding feature is its high energy absorption, which comes from a combination of the very long yarn path and stranditure developed especially to maximize energy absorption.

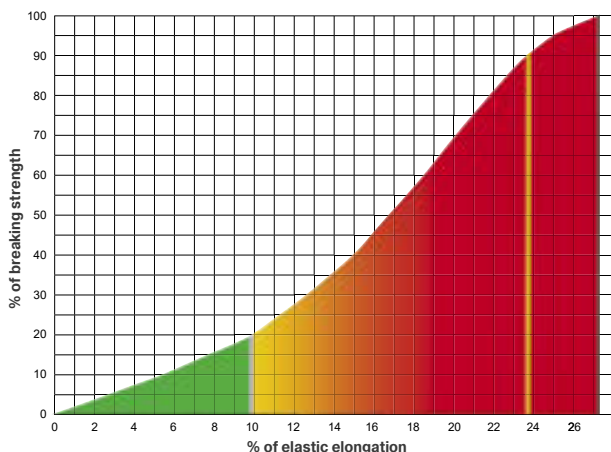
Nylon Brait can absorb (or mitigate) greater amounts of dynamic energy than 3-stranded or braided rope structures with less damage. Brait's energy absorption also keeps the corresponding loads on attachment points smaller since the rope does more work internally. Brait is easily spliced and the spliced rope delivers 100% of the ropes advertised strength.

### Specifications

Diameter Inches	Diameter mm	Weight Lbs/100ft	Weight Kg/100m	Average Spliced Break Strength* Lbs	Average Spliced Break Strength* Kg	Minimum Spliced Break Strength* Lbs	Minimum Spliced Break Strength* Kg	Maximum** Work Load 5:1 Lbs	Maximum** Work Load 5:1 Kg
3/8	10	3.8	5.7	4,000	1,800	3,600	1,620	800	360
1/2	13	6.1	9.1	8,300	3,750	7,470	3,375	1,660	750
17/32	13	6.4	9.6	9,200	4,150	8,280	3,735	1,840	830
5/8	16	9.4	14.0	12,200	5,500	10,980	4,950	2,440	1,100
21/32	17	9.6	14.3	12,900	5,850	11,610	5,265	2,580	1,170
11/16	17	11.0	16.4	15,000	6,800	13,500	6,120	3,000	1,360
3/4	19	14.0	20.8	17,000	7,700	15,300	6,930	3,400	1,540
7/8	22	19.0	28.3	22,000	10,000	19,800	9,000	4,400	2,000
1	25	23.7	35.3	27,000	12,250	24,300	11,025	5,400	2,450
1 1/8	29	30.5	45.4	34,750	15,750	31,275	14,175	6,950	3,150
1 1/4	32	35.6	53.0	40,500	18,350	36,450	16,515	8,100	3,670
1 1/2	38	49.8	74.2	56,700	25,700	51,030	23,130	11,340	5,140
1 5/8	41	59.5	88.6	67,700	30,700	60,930	27,630	13,540	6,140
1 3/4	44	74.0	110.2	84,700	38,450	76,230	34,605	16,940	7,690

\* Knots and abrupt bends significantly reduce the strength of all ropes and lower maximum working load.

\*\* Working load is based on static or moderately dynamic lifting/pulling operations. Instantaneous changes in load, up or down, in excess or 10% of the rope's related working load constitute hazardous shock load and would void the normal working-load recommendation. Consult Yale Cordage for guidelines for working loads and the safe use of rope.



### Energy Absorption

The colored area under the curve represents the rope's ability to do "work" and is expressed in foot-pounds per pound of rope in tension.

- Green working 1,426 ft. lbs./lb.
- Red ultimate 23,680 ft. lbs./lb..

Approved Splice Technique: #10017302.

- Maximum Working Load
- Minimum Break Strength
- Average Break Strength

Specific Gravity: 1.14