

PORTLAND BRAID™

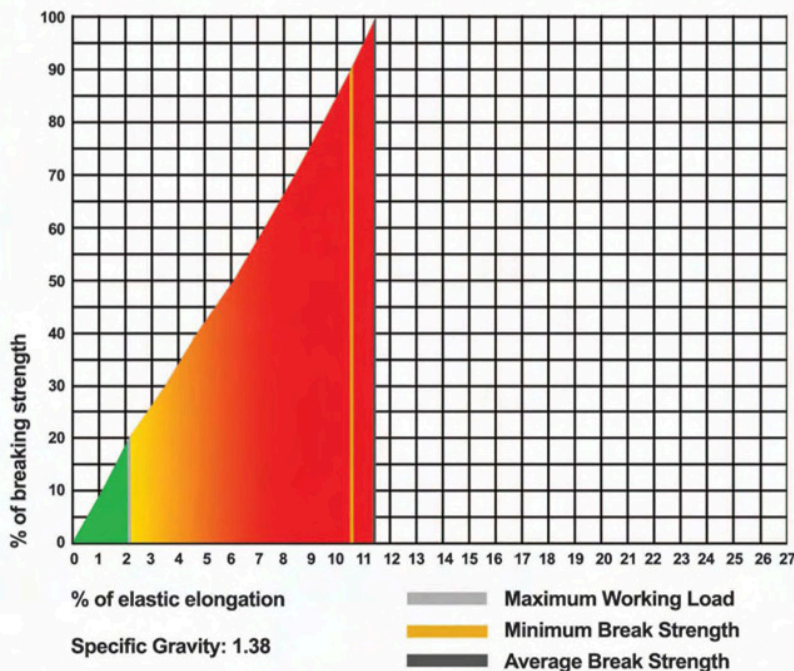
Portland Braid double braided polyester offers high value at a very competitive price. Built in the same manner as our Double Esterlon, Portland Braid offers consistent performance at an economical price. The

fiber used to produce Portland Braid is sourced from Yale's qualified suppliers. As with all of Yale's products, Portland Braid can be special ordered in ultra-long continuous lengths.

Diameter Inches (mm)	Average Spliced Break Strength*		Minimum Spliced Break Strength*		Maximum** Work Load 5:1		Weight	
	Lbs	Kg	Lbs	Kg	Lbs	Kg	100ft	100m
1/4 (6.0)	2,300	1,040	2,070	935	460	205	2.2	3.3
5/16 (8.0)	3,600	1,630	3,240	1,470	720	325	3.5	5.2
3/8 (9.0)	4,900	2,220	4,410	2,000	980	440	5.0	7.4
7/16 (11.0)	6,600	2,995	5,940	2,695	1,320	595	6.3	9.4
1/2 (12.0)	8,400	3,810	7,560	3,430	1,680	760	8.8	13.1
9/16 (14.0)	11,100	5,035	9,990	4,535	2,220	1,005	11.6	17.3
5/8 (16.0)	14,900	6,760	13,410	6,085	2,980	1,350	14.1	21.0
3/4 (18.0)	18,000	8,170	16,200	7,350	3,600	1,630	18.0	26.8
7/8 (22.0)	29,450	13,370	26,505	12,030	5,890	2,670	27.1	40.4
1 (24.0)	38,400	17,430	34,560	15,690	7,680	3,485	36.6	54.5
1-1/8 (27.0)	45,000	20,430	40,500	18,385	9,000	4,085	43.5	64.8
1-1/4 (30.0)	52,000	23,605	46,800	21,245	10,400	4,720	54.0	80.4
1-1/2 (38.0)	67,000	30,415	60,300	27,375	13,400	6,080	69.2	103.0
1-3/4 (44.0)	95,000	43,130	85,500	38,815	19,000	8,625	103.0	153.4
2 (50.0)	118,000	53,570	106,200	48,210	23,600	10,710	127.4	189.7
2-1/2 (63.0)	160,000	72,640	144,000	65,375	32,000	14,525	172.6	257.0

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

** **Working load** is based on static or moderately dynamic lifting/pulling operations. Instantaneous changes in load up or down, in excess of 10% of the rope's rated working load constitutes hazardous shock load and would void normal working load recommendation. Consult Yale Cordage for guidelines for working loads and 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 265 ft. lbs./lb.
- Red ultimate 5,929 ft. lbs./lb.

Dielectric Strength: The maximum allowable leakage for clean, dry Portland Braid is 100 Micro Amperes when tested at 90KV per ASTM 1701-05 "Routine Production Test". Absorbed and entrained moisture or impurities will increase ropes conductivity dramatically.

Splice using Yale's splicing technique document #10017200 (all sizes).