

PolyPlus



PolyPlus Braid is an affordable 12-strand single-braid rope constructed of high-tenacity polyester plied over “Para-ep” polyolefin in each individual strand.

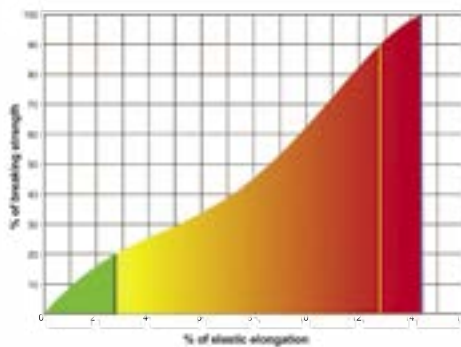
A unique plying technique as well as a generous proportion of polyester to olefin is coupled with Yale’s exclusive Aralube treatment to optimize the rope’s abrasion resistance. The “Para-ep” provides body to the rope and enhances its handling characteristics while keeping the rope’s weight to a minimum.

The two-end-per-carrier structure makes the rope very easy to splice, and it is entirely torque balanced. PolyPlus Braid is the strongest single-braid polyester/polyolefin blended rope available and is always manufactured with a single red strand.

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
1/4	6	1.65	2.5	2,820	1,280	2,538	1,152	564	256
3/8	10	3.6	5.4	5,880	2,665	5,292	2,399	1,176	533
7/16	11	4.3	6.4	7,250	3,290	6,525	2,961	1,450	658
1/2	13	5.9	8.8	9,600	4,355	8,640	3,920	1,920	871
5/8	16	9.3	13.8	14,200	6,445	12,780	5,801	2,840	1,289
3/4	19	12.3	18.3	20,500	9,305	18,450	8,375	4,100	1,861

* 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 of 10% of the rope’s rated 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 353 ft. lbs./lb.
 ■ Red ultimate 10,268 ft. lbs./lb.

Dielectric Strength: The maximum allowable leakage for clean, dry PolyPlus Braid is 150 micro-amperes when tested at 100kV per Yale Method 712-1701 Rev 1 “Routine Production Test.” Absorbed and entrained moisture or impurities will increase rope’s conductivity dramatically.

Approved Splice Technique: #10015101.

Maximum Working Load
 Minimum Break Strength
 Average Break Strength

Specific Gravity: 1.25