Polyethylene Rope

Polyethylene rope has positive buoyancy (floats) but is slightly heavier than polypropylene rope. Tensile remains the same wet or dry. It is commonly used in commercial fishing and industrial applications.

PE-S 3 S/T

Dia		Circ	Weight			Breaking Strength		Dia		Circ	Weight			Breaking Strength	
mm	Inch	Inch	KGS/100m	LBS/100FT	LBS/100FM	Kg	kN	mm	Inch	Inch	KGS/100m	LBS/100FT	LBS/100FM	Kg	kN
4	5/32	1/2	0.81	0.54	3.27	200	1.96	38	1-1/2	4-3/4	70.8	47.58	285.45	14,700	144.4
5	3/16	5/8	1.26	0.85	5.08	280	2.72	40	1-19/32	5	78.5	52.75	316.50	16,300	160.0
6	1/4	3/4	1.82	1.22	7.34	400	3.92	42	1-21/32	5-1/4	86.6	58.19	349.16	17,900	175.4
7	9/32	7/8	2.50	1.68	10.08	540	5.25	44	1-3/4	5-1/2	95.0	63.84	383.02	19,600	192.5
8	5/16	1	3.27	2.20	13.18	700	6.86	45	1-13/16	5-5/8	101.1	67.94	407.62	20,000	196.9
9	3/8	1-1/8	3.97	2.67	16.01	900	8.83	48	1-7/8	6	115.0	77.28	463.66	22,800	224.0
10	13/32	1-1/4	4.90	3.29	19.76	1,100	10.7	50	2	6-1/4	125.0	84.00	503.98	24,400	239.5
11	7/16	1-3/8	6.10	4.10	24.59	1,300	12.7	52	2-1/16	6-1/2	135.0	90.72	544.30	26,400	259.0
12	15/32	1-1/2	7.20	4.84	29.03	1,500	15.1	55	2-5/32	6-7/8	151.4	101.74	610.42	29,300	287.4
13	1/2	1-5/8	8.20	5.51	33.06	1,800	17.7	56	2-1/4	7	157.0	105.50	633.00	30,400	298.0
14	9/16	1-3/4	9.50	6.38	38.30	2,100	20.5	60	2-3/8	7-1/2	180.0	120.96	725.73	34,500	338.0
16	5/8	2	12.8	8.60	51.61	2,800	27.5	64	2-1/2	8	205.0	137.75	826.53	39,000	383.0
18	23/32	2-1/4	16.1	10.82	64.91	3,500	34.0	65	2-9/16	8-1/16	211.0	142.12	852.73	40,200	392.0
19	3/4	2-3/8	18.1	12.16	72.98	3,880	37.8	70	2-3/4	8-11/16	244.8	164.50	986.99	46,300	454.6
20	13/16	2-1/2	20.0	13.44	80.64	4,300	41.9	72	2-7/8	9	259.0	174.04	1,044.25	49,000	481.0
22	7/8	2-3/4	24.3	16.33	97.97	5,100	49.8	75	3	9-1/4	282.0	189.50	1,136.98	53,000	520.0
24	15/16	3	29.5	19.82	118.94	6,100	59.8	80	3-5/32	10	321.0	215.70	1,294.22	60,300	592.0
25	1	3-1/8	30.3	20.36	122.16	6,400	62.8	85	3-3/8	10-1/2	362.0	243.25	1,459.52	67,600	663.2
26	1-1/32	3-1/4	32.8	22.04	132.24	6,900	68.0	88	3-7/16	11	388.0	260.73	1,564.35	72,500	711.0
28	1-1/8	3-1/2	39.3	26.41	158.45	8,200	80.5	90	3-9/16	11-1/8	405.8	272.69	1,636.12	75,800	736.0
30	1-3/16	3-3/4	46.0	30.91	185.46	9,500	93.0	95	3-3/4	11-3/4	451.4	303.33	1,819.97	83,600	820.0
32	1-1/4	4	52.5	35.28	211.67	10,700	105.0	96	3-13/16	12	461.0	309.78	1,858.68	85,400	838.0
34	1-11/32	4-1/4	58.9	39.58	237.48	12,000	118.0	100	3-15/16	12-3/8	500.2	336.12	2,016.72	92,700	909.4
36	1-7/16	4-1/2	66	44.35	266.1	13,500	132.0								

• Warning : The minimum breaking strength should never be considered as the safe working load of the rope

Mussel Hanging Rope

Mussel Hanging Rope

Dia		Circ	Weight			Breaking Strength	
mm	Inch	Inch	KGS/100m	LBS/100FT	LBS/100FM	Kg	kN
9	3/8	1-1/8	4.00	2.69	16.13	820	8.04
10	13/32	1-1/4	5.00	3.36	20.16	1,000	9.80
12	15/32	1-1/2	7.00	4.70	28.22	1300	12.75
14	9/16	1-3/4	10.00	6.72	40.32	1,800	17.65
16	5/8	2	13.00	8.74	52.41	2300	22.56
18	23/32	2-1/4	16.00	10.75	64.51	2,800	27.46
20	13/16	2-1/2	19.50	13.10	78.62	3500	34.33

Mussel Hanging Lead Core Rope

Dia		Circ	Weight			Breaking Strength	
mm	Inch	Inch	KGS/100m	LBS/100FT	LBS/100FM	Kg	kN
9	3/8	1-1/8	8.00	5.38	32.25	820	8.04
10	13/32	1-1/4	10.65	7.16	42.94	1000	9.80
12	15/32	1-1/2	14.90	10.01	60.07	1,300	12.75
14	9/16	1-3/4	21.75	14.62	87.69	1800	17.65
16	5/8	2	28.30	19.02	114.10	2,300	22.56
18	23/32	2-1/4	34.80	23.38	140.31	2800	27.46
20	13/16	2-1/2	42.40	28.49	170.95	3,500	34.33

[Applications]

• Mussel Farms

• High abrasion resistance & high strength
• UV stabilizer treated
• Designed to have maximum surface area to help mussels stick to the ropes easily
• Lead core helps the rope to sink and hang vertically

Mooring Tails

Reason for Using Mooring Tails

Generally more elasticity is required for mooring ropes. Tails can provide this elasticity which reduces the load induced by steel wire moorings under dynamic loading. Tails permit the ship to respond more favorably when subjected to various wind, wave and current conditions. Tails also tend to distribute the loading more evenly compared to mooring lines without tails.



Mooring Tails

Material	Construction	Type	Dia.(mm)	MBL(ton)	Application Factor
Nylon Tail	8-Strand 12-Strand Double Braided	Eye to Eye or Endless	60 Up	64 Up	137% against MBL of SuperMax, Wire Rope
Polyester Superflex Tail	8-Strand 12-Strand Double Braided	Eye to Eye or Endless	60 Up	55 Up	125% against MBL of SuperMax, Wire Rope

Mooring Rope

It is commonly used for heavy marine applications such as mooring, docking and anchor systems. The mooring ropes retain superior strength under shock have excellent resistance to abrasion with less kinks and internal rotations.

Suggested mooring ropes for various classes of vesseles

Passenger Ships Ro-Ro Vessels Container Car Carriers	SuperMax® Plus	Superflex®	Superdan®	PP Dan	Nylon
	Dia.(mm)	Dia.(mm) (Circ/in)	Dia.(mm) (Circ/in)	Dia.(mm) (Circ/in)	Dia.(mm)
5,000t. dw	24	48(6")	52(6-1/2")	56(7")	48
12,000t. dw	26	52(6-1/2")	56(7")	60(7-1/2")	52
25,000t. dw	28	56(7")	60(7-1/2")	64(8")	56
40,000t. dw	32	60(7-1/2")	64(8")	72(9")	60
80,000t. dw	36	64(8")	68(8-1/2")	76(9-1/2")	64

Passenger Ships Ro-Ro Vessels Container Car Carriers	SuperMax® Plus	Superflex®	Superdan®	PP Dan	Nylon
	Dia.(mm)	Dia.(mm) (Circ/in)	Dia.(mm) (Circ/in)	Dia.(mm) (Circ/in)	Dia.(mm)
5.~10,000t. dw	24	48(6")	52(6-1/2")	56(7")	48
10.~20,000t. dw	26	52(6-1/2")	56(7")	60(7-1/2")	52
20.~40,000t. dw	32	56(7")	60(7-1/2")	64(8")	56
40.~80,000t. dw	36	60(7-1/2")	64(8")	72(9")	60
80.~150,000t. dw	38	64(8")	68(8-1/2")	76(9-1/2")	64
150.~250,000t. dw	40	68(8-1/2")	72(9")	80(10")	68
Above 250,000t. dw	44	72(9")	76(9-1/2")	88(11")	70