

## PHILLYSTRAN POLYESTER ROPES

Phillystran is pleased to offer ropes manufactured from large filament, high tenacity polyester fiber. Carefully selected special yarn finishes, combined with top grade polyester fiber and built in a unique 7 strand wirelay construction result in a polyester rope with superior properties when compared to conventional polyester ropes. These ropes have proven to exceed the fatigue life of wire rope, while demonstrating to be more durable than nylon or aramid fiber products. The ropes' 7 strand core is protected by an overbraid of the same high performance fiber. High tenacity polyester fiber provides excellent dimensional stability in the manufacture of ropes for marine, military, and industrial applications. Phillystran polyester ropes are intended for applications where moderate elasticity may be useful, but superior strength and durability are essential.



PART NUMBER	BREAK STRENGTH		DIAMETER		WEIGHT	
	lb	kN	in	mm	lb/1000 ft	kg/km
PSP 7.5	7,500	33	0.40	10	54	80
PSP 15	15,000	67	0.55	14	95	140
PSP 25	25,000	111	0.72	18	165	250
PSP 35	35,000	156	0.84	21	220	330
PSP 45	45,000	200	0.96	24	280	420
PSP 55	55,000	245	1.05	27	390	580
PSP 90	90,000	400	1.32	34	570	850
PSP 130	130,000	578	1.58	40	800	1,190
PSP 175	175,000	778	1.82	46	1,070	1,590
PSP 220	220,000	979	2.07	53	1,500	2,230
PSP 285	285,000	1,268	2.36	60	1,900	2,830
PSP 345	345,000	1,535	2.59	66	2,250	3,350
PSP 400	400,000	1,779	2.79	71	2,600	3,870
PSP 475	475,000	2,113	3.04	77	3,050	4,540
PSP 585	585,000	2,602	3.27	83	3,550	5,280
PSP 620	620,000	2,758	3.48	88	4,000	5,950
PSP 700	700,000	3,114	3.72	94	4,500	6,700
PSP 780	780,000	3,470	3.93	100	5,000	7,440

Weights and Dimensions can vary.

**CAUTION: Break Strength:** The breaking strength of a rope is the load at which a new rope will break when tested under laboratory conditions. Break strength should not be mistaken for safe working load. **Safe Working Load:** Because of the wide range of rope use, rope condition and the degree of risk of life or property, it is not possible to make a blanket recommendation for safe working load. It is ultimately dependent on the rope user to determine what percentage of break strength is their own safe working load. **Wear:** Ropes wear out with use; the more severe the usage, the greater the wear. It is often not possible to detect wear on a rope by visible signs alone. Therefore, it is recommended that the rope user determine a retirement criteria for ropes in their application. For assistance in developing safe working load and retirement criteria for each application please call or write Phillystran.

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