

PHILLYSTRAN® ROPES VECTRAN® (Liquid Crystal Polymer)

143-2/06

Phillystran ropes are made from Vectran® liquid crystal polymer fiber. PSV ropes are manufactured in wire rope constructions. Various jackets are available, including extruded polyurethanes and braided polyesters. Typical applications where PSV ropes should be considered are streamer cables, mooring lines, towed arrays and winch lines.



PART NUMBER	BREAK STRENGTH		DIAMETER		WEIGHT	
	LBS	KG	IN	mm	LBS/1000 FT	kg/km
PSV 005	1,500	6.7	1/8	3.2	8	12
PSV 008	4,000	18	3/16	4.8	19	28
PSV 010	7,700	34	1/4	6.4	38	57
PSV 020	15,000	67	3/8	10	56	83
PSV 030	23,000	102	7/16	11	80	120
PSV 040	28,000	125	1/2	13	100	150
PSV 050	44,000	196	5/8	16	150	220
PSV 060	63,000	280	3/4	19	200	300
PSV 080	110,000	489	1	25	350	520
PSV 145	145,000	645	1-1/8	29	445	660
PSV 165	165,000	734	1-1/4	32	495	740
PSV 210	210,000	934	1-1/2	38	615	920
PSV 255	255,000	1,134	1-5/8	41	730	1,090
PSV 310	310,000	1,379	1-3/4	44	855	1,270
PSV 355	355,000	1,579	1-7/8	48	1,000	1,490
PSV 470	470,000	2,091	2-1/8	54	1,300	1,930
PSV 590	590,000	2,624	2-1/2	64	1,800	2,680
PSV 710	710,000	3,158	2-3/4	70	2,150	3,200
PSV 830	830,000	3,692	3	76	2,550	3,790
PSV 945	945,000	4,203	3-1/4	83	3,000	4,460
PSV 1065	1,065,000	4,737	3-1/2	89	3,500	5,210
PSV 1180	1,180,000	5,250	3-5/8	92	4,000	5,950

Weights and Dimensions can vary
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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, Inc.

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