

PHILLYSTRAN® STRENGTH MEMBERS ZYLON® (PBO)

190-2/06

Phillystran Zylon® (PBO) strength members are impregnated with carefully formulated urethane resins under precisely controlled tensions. This process not only guarantees predictable uniformity at every point along the strand, but also virtually eliminates internal abrasion during its' working life. Low modulus (PSAS) and high modulus (PSHM) fiber is available.

PART NUMBER	BREAK STRENGTH		MODULUS x10 ⁶ PSI	WEIGHT		WIDTH		HEIGHT	
	LBS	N		LBS/1000 FT	kg/km	IN	mm	IN	mm
Low Modulus									
PSAS Z15	120	534	21	0.13	0.19	0.026	0.66	0.017	0.43
PSAS Z30	240	1,068	21	0.26	0.39	0.034	0.86	0.024	0.61
PSAS Z45	360	1,601	21	0.43	0.61	0.048	1.22	0.029	0.74
PSAS Z60	480	2,135	20	0.53	0.79	0.059	1.50	0.031	0.79
PSAS Z75	600	2,669	20	0.67	0.98	0.072	1.83	0.032	0.82
PSAS Z90	680	3,025	19	0.82	1.22	0.075	1.90	0.034	0.86
PSAS Z105	800	3,559	19	0.97	1.41	0.080	2.03	0.034	0.86
PSAS Z150	1080	4,804	18	1.38	2.04	0.125	3.17	0.036	0.91
PSAS Z180	1300	5,783	18	1.62	2.44	0.135	3.43	0.040	1.02
High Modulus									
PSHM Z15	120	534	30	0.13	0.19	0.026	0.66	0.017	0.43
PSHM Z30	240	1,068	30	0.26	0.39	0.034	0.86	0.024	0.61
PSHM Z45	360	1,601	29	0.43	0.61	0.048	1.22	0.029	0.74
PSHM Z60	480	2,135	29	0.53	0.79	0.059	1.50	0.031	0.79
PSHM Z75	600	2,669	28	0.67	0.98	0.072	1.83	0.032	0.82
PSHM Z90	680	3,025	28	0.82	1.22	0.075	1.90	0.034	0.86
PSHM Z105	800	3,559	27	0.97	1.41	0.080	2.03	0.034	0.86
PSHM Z150	1080	4,804	26	1.38	2.04	0.125	3.17	0.036	0.91
PSHM Z180	1300	5,783	26	1.62	2.44	0.135	3.43	0.040	1.02

Weights and Dimensions can vary
Zylon® is a registered trademark of Toyobo Co. Ltd.

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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