

PHILLYSTRAN® STRENGTH MEMBERS (STRAND)

111-2/06

Phillystran processing transforms the raw aramid filaments into a single lubricated strand with predictable and repeatable design specifications. The fibers are impregnated with carefully formulated resins under precisely controlled tensions. The process not only guarantees predictable uniformity at every point along the strand but also virtually eliminates internal abrasion during its working life.



| PART NUMBER | BREAK STRENGTH | | WEIGHT | | DIMENSIONS WIDTH | | HEIGHT | | REEL WEIGHT LBS |
|-----------------------|----------------|------|------------|-------|------------------|------|--------|------|-----------------|
| | LBS | N | LBS/1000FT | kg/km | IN | mm | IN | mm | |
| Phillystran 29 | | | | | | | | | |
| PS29-B04 | 16 | 71 | 0.04 | 0.06 | 0.012 | 0.30 | 0.008 | 0.20 | 3 |
| PS29-B10 | 40 | 178 | 0.09 | 0.13 | 0.020 | 0.51 | 0.015 | 0.38 | 6 |
| PS29-B15 | 60 | 267 | 0.13 | 0.19 | 0.026 | 0.66 | 0.017 | 0.43 | 23 |
| PS29-B30 | 120 | 534 | 0.26 | 0.39 | 0.034 | 0.86 | 0.024 | 0.61 | 23 |
| PS29-B45 | 180 | 801 | 0.43 | 0.61 | 0.048 | 1.22 | 0.029 | 0.74 | 20 |
| PS29-B60 | 240 | 1068 | 0.53 | 0.79 | 0.059 | 1.50 | 0.031 | 0.79 | 20 |
| PS29-B75 | 300 | 1334 | 0.67 | 0.98 | 0.072 | 1.83 | 0.032 | 0.82 | 20 |
| PS29-B90 | 340 | 1512 | 0.82 | 1.22 | 0.075 | 1.90 | 0.034 | 0.86 | 20 |
| PS29-B105 | 400 | 1779 | 0.97 | 1.41 | 0.080 | 2.03 | 0.034 | 0.86 | 20 |
| PS29-B150 | 540 | 2402 | 1.38 | 2.04 | 0.125 | 3.17 | 0.036 | 0.91 | 20 |
| PS29-B180 | 650 | 2891 | 1.62 | 2.44 | 0.135 | 3.43 | 0.040 | 1.02 | 20 |
| Phillystran 49 | | | | | | | | | |
| PS49-B038 | 14 | 62 | 0.04 | 0.06 | 0.012 | 0.30 | 0.008 | 0.20 | 3 |
| PS49-B14 | 56 | 249 | 0.13 | 0.19 | 0.026 | 0.66 | 0.017 | 0.43 | 23 |
| PS49-B28 | 112 | 498 | 0.26 | 0.39 | 0.034 | 0.86 | 0.024 | 0.61 | 23 |
| PS49-B42 | 168 | 747 | 0.43 | 0.61 | 0.048 | 1.22 | 0.029 | 0.74 | 20 |
| PS49-B56 | 224 | 996 | 0.53 | 0.79 | 0.059 | 1.50 | 0.031 | 0.79 | 20 |
| PS49-B70 | 280 | 1246 | 0.67 | 0.98 | 0.072 | 1.83 | 0.032 | 0.82 | 20 |
| PS49-B84 | 320 | 1423 | 0.82 | 1.22 | 0.075 | 1.90 | 0.034 | 0.86 | 20 |
| PS49-B98 | 375 | 1668 | 0.97 | 1.41 | 0.080 | 2.03 | 0.034 | 0.86 | 20 |
| PS49-B140 | 500 | 2224 | 1.38 | 2.04 | 0.125 | 3.17 | 0.036 | 0.91 | 20 |
| PS49-B168 | 600 | 2669 | 1.62 | 2.44 | 0.135 | 3.43 | 0.040 | 1.02 | 20 |

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, Inc.

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