

- UL94 V-0 Approved
- Ultra-Light Weight
- Highly Wear Resistant
- Expands Up To 150%
- Resists Acids, Bases, Solvents And Fuels
- Cut And Abrasion Resistant

| Nominal Size | Part # | Wall Thickness | Expansion Range | | Bulk Spool | Shop Spool | Available Colors | Kgs/ 100m |
|--------------|----------|----------------|-----------------|--------|------------|------------|------------------|-----------|
| | | | Min | Max | | | | |
| 3,2mm | PKRY0.13 | 0,51mm | 2,4mm | 6,4mm | 304,8m | 68,6m | NT & BK | 0,16 |
| 6,4mm | PKRY0.25 | 0,51mm | 3,2mm | 9,5mm | 304,8m | 61,0m | NT & BK | 0,43 |
| 9,5mm | PKRY0.38 | 0,51mm | 4,8mm | 19,1mm | 152,4m | 38,1m | NT & BK | 0,64 |
| 12,7mm | PKRY0.50 | 0,51mm | 6,4mm | 22,2mm | 152,4m | 30,5m | NT & BK | 0,85 |
| 19,1mm | PKRY0.75 | 0,51mm | 12,7mm | 34,9mm | 76,2m | 22,9m | NT & BK | 1,35 |
| 31,8mm | PKRY1.25 | 0,51mm | 15,9mm | 44,5mm | 76,2m | 15,2m | NT & BK | 1,82 |
| 44,5mm | PKRY1.75 | 0,51mm | 19,1mm | 57,2mm | 76,2m | 15,2m | NT & BK | 3,17 |
| 50,8mm | PKRY2.00 | 0,51mm | 38,1mm | 57,2mm | 61,0m | 15,2m | NT & BK | 4,46 |
| 63,5mm | PKRY2.50 | 0,51mm | 47,6mm | 76,2mm | 61,0m | 15,2ms | NT & BK | 4,91 |

Ultra Lightweight High-Temp Tolerant And Virtually Impervious To Chemical Degradation

HELIX2 (PKRY) - one highly advanced flame resistant expandable sleeving engineered with two highly advanced materials. HeliX2's unique braid is comprised of 8 mil flame resistant PolyPhenylene Sulfide (PPS) monofilament fibers and 10 mil filaments of pure, unfilled PolyEtherEther-Keystone (PEEK) polymer making it one of the most advanced flame resistant braided sleeves on the market. HeliX2 (PKRY) is the perfect choice when high temperature, flame resistant wire harnessing and cable assemblies are imperative. It is lightweight, resistant to high heat, and essentially immune to chemicals and solvents. HeliX2 (PKRY) meets or exceeds many engineering standards including Chemical resistance, high temperature stability, zero moisture absorption, dimensional stability, and ultra-low wear — making it ideal for aerospace, telecom, and military applications. This exclusive construction offers the broadest resistance to chemicals of any of our advanced engineering products resulting in resistance to all known solvents below 392°F and being inert to steam, strong bases, fuels, and acids.

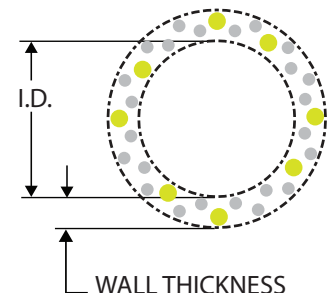
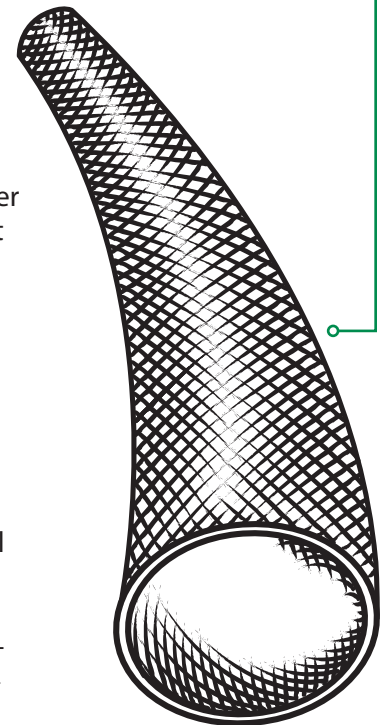
Colors Available:



Natural (NT) and Black (BK).

A true aerospace material, HeliX2 is ideal in satellite applications where weight and stability are of primary importance.

Colors Available:
2 = Black (BK)
& Natural (NT)



**Cut Cleanly
Hot Knife**

Material

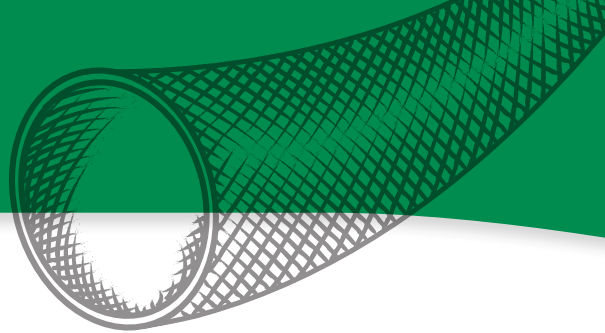
**Polyethylene Sulphide/
Polyetheretherketone**

Grade

PKRY

Monofilament Diameter

PPS 0,2mm/PEEK 0,25mm



ABRASION FLAMMABILITY

Abrasion Resistance
Medium

Rating _____ UL94 V-O

Abrasion Test Machine
Taber 5150

Abrasion Test Wheel
Calibrase H-18

Abrasion Test Load
500g

Room Temperature
71°F

Humidity
44%

**Average Wear And
Several Filaments Broken**
200 Test Cycles

Wear Continues
400 Test Cycles

Material Destroyed
550 Test Cycles

Pre-Test Weight
3.92g

Post-Test Weight
3.48g

Test End Loss Of Mass
Point Of Destruction
0.44g

CHEMICAL RESISTANCE

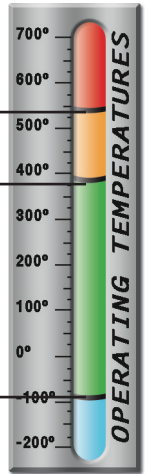
1=No Effect 4=More Affected
2=Little Effect 5=Severely Affected
3=Affected

| | |
|----------------------------------|------|
| Aromatic Solvents _____ | 1 |
| Aliphatic Solvents _____ | 1 |
| Chlorinated Solvents _____ | 1 |
| Weak Bases _____ | 1 |
| Salts _____ | 1 |
| Strong Bases _____ | 2 |
| Salt Water 0-S-1926 _____ | 1 |
| Hydraulic Fluid MIL-H-5606 _____ | 1 |
| Lube Oil MIL-L-7808 _____ | 1 |
| De-Icing Fluid MIL-A-8243 _____ | 1 |
| Strong Acids _____ | 1 |
| Strong Oxidants _____ | 1 |
| Esters/Ketones _____ | 1 |
| UV Light _____ | 1 |
| Petroleum _____ | 1 |
| Fungus ASTM G-21 _____ | 1 |
| Halogen Free _____ | Yes |
| RoHS _____ | Yes |
| SVHC _____ | None |

Melt Point
ASTM D-2117
545°F (285°C)

Maximum Continuous
Mil-I-23053
392°F (200°C)

Minimum Continuous
-94°F (-70°C)



PHYSICAL PROPERTIES

| | |
|---------------------------|--------------|
| Monofilament Diam. _____ | 0,2mm/0,25mm |
| ASTM D-204 | |
| Flammability Rating _____ | UL94 V-O |
| Recommended Cutting _____ | Hot Knife |
| Colors _____ | 2 |
| Wall Thickness _____ | 0,51mm |
| TML _____ | .39 |
| CVCM _____ | .00 |
| WVR _____ | .27 |
| Smoke D-Max _____ | 2.3 |
| ASTM E-662 | |
| Outgassing _____ | Low |
| Oxygen Index _____ | 37 |
| ASTM D-2863 | |