



- High Chemical Resistance
- Low Outgassing
- Halogen Free
- Very Light Weight
- V-O Flammability Rating
- Wear Resistant
- High Strength Alternative to Fluoropolymers



**Cut Cleanly  
Hot Knife**

**Material**  
Polyetheretherketone

**Grade**  
PKN

**Monofilament Diameter**  
.010"

**Drawing Number**  
TF001PK-WD

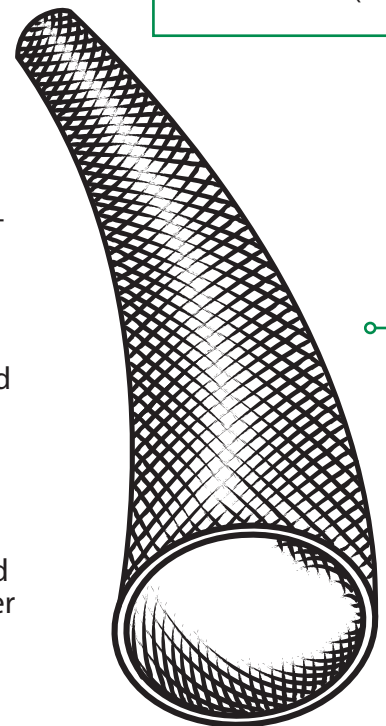
Nominal Size	Part #	Expansion Range		Bulk Spool	Shop Spool	Available Colors	Lbs/100'
		Min	Max				
1/8"	PKN0.13BK	1/16"	5/16"	1,000'	225'	Black (BK)	0.16
1/4"	PKN0.25BK	7/64"	9/16"	1,000'	200'	Black (BK)	0.19
3/8"	PKN0.38BK	5/32"	5/8"	500'	125'	Black (BK)	0.31
1/2"	PKN0.50BK	3/16"	15/16"	500'	100'	Black (BK)	0.44
5/8"	PKN0.63BK	1/4"	1 1/4"	500'	100'	Black (BK)	0.51
3/4"	PKN0.75BK	3/8"	1 3/8"	250'	75'	Black (BK)	0.64

Call for more size availability

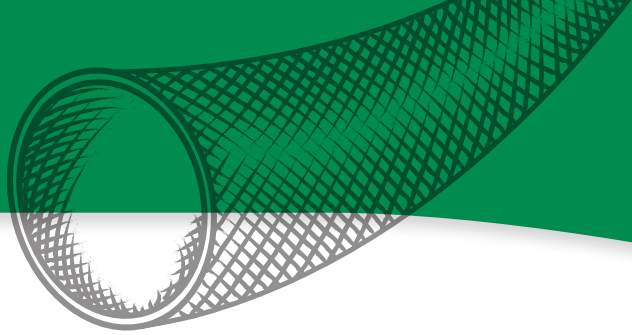
### Secures Performance Of Sensitive Items in Challenging Environments

Similar to PPS, but with a substantially expanded operating temperature range, PEEK (PolyEtherEther-Ketone) is a high performance advanced polymer with outstanding physical properties. PEEK is inherently flame retardant, with a V-0 flammability rating, will withstand continuous use in superheated water or steam up to 500°F, and resists most acids, solvents and bases.

PEEK is FDA approved as a food contact product, resists damage from radiation and will continue to perform in UHV (Ultra High Vacuum) environments. PEEK is extensively used in the aerospace, automotive, teletronic and chemical process industries, and is considered an advanced biomaterial used in medical implants and other biomedical applications. PEEK will withstand thousands of sterilization cycles without damage or degradation. Flexo PEEK expandable sleeving is tightly braided from 10 mil filaments of pure, unfilled PEEK polymer. The sleeving expands to fit over connectors and splices, and provides a full coverage over wires hoses and cable bundles in advanced engineering applications.



**Colors Available:**  
Black (BK)



## FLAMMABILITY

Rating \_\_\_\_\_ V-O

## CHEMICAL RESISTANCE

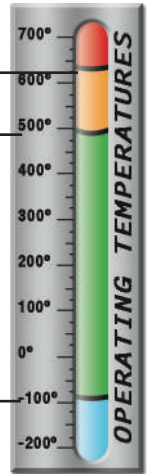
1=No Effect      4=More Affected  
2=Little Effect    5=Severely Affected  
3=Affected

Aromatic Solvents _____	1
Aliphatic Solvents _____	1
Chlorinated Solvents _____	1
Weak Bases _____	1
Salts _____	1
Strong Bases _____	3
Salt Water 0-S-1926 _____	1
Hydraulic Fluid MIL-H-5606 _____	1
Lube Oil _____	1
De-Icing Fluid MIL-A-8243 _____	1
Strong Acids _____	3
Strong Oxidants _____	1
Esters/Ketones _____	1
UV Light _____	1
Petroleum _____	1
Fungus ASTM G-21 _____	1
Halogen Free _____	Yes
RoHS _____	Yes

Melt Point  
ASTM D-2117  
633°F (334°C)

Maximum Continuous  
MIL-I-23053  
500°F (260°C)

Minimum Continuous  
-94°F (-70°C)



## PHYSICAL PROPERTIES

Monofilament Diameter _____	.010
Recommended Cutting _____	Hot Knife
Colors _____	1
Wall Thickness _____	.025
Abrasion Resistance _____	Med
Tensile Strength _____	13,300
ASTM D638 (PSI)	
Specific Gravity ASTM D-792 _____	1.3
Water Absorption % _____	<0.05
ASTM D-570	
Elongation _____	50
ASTM D638 (%)	
Electrical:	
Dielectric Strength _____	>500
ASTM D149 (V/Mil)	
Volume Resistivity _____	>4.9x10 <sup>16</sup>
ASTM D257 (ohm-cm)	
Outgassing _____	Low