



**PEEK**

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

**Put-Ups**

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
1"	PKN1.00BK			250'	65'	Black (BK)	0.71
1 1/4"	PKN1.25BK			250'	50'	Black (BK)	0.86
1 1/2"	PKN1.50BK			200'	40'	Black (BK)	1.28
1 3/4"	PKN1.75BK			200'	30'	Black (BK)	1.61
2"	PKN2.50BK			200'	50'	Black (BK)	2.14



**Cut Cleanly  
Hot Knife**

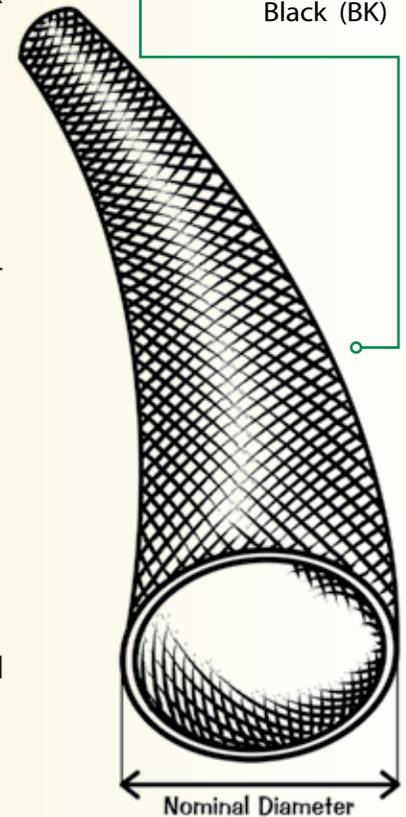
**Secures Performance Of Sensitive Items in Challenging Environments**

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)



<b>Material</b>	<b>Polyetheretherketone</b>
<b>Grade</b>	<b>PKN</b>
<b>Monofilament Diameter</b>	<b>.010"</b>
<b>Drawing Number</b>	<b>TF001PK-WD</b>





**PEEK**



Rating \_\_\_\_\_ V-0



**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 <i>0-S-1926</i>	_____	1
Hydraulic Fluid <i>MIL-H-5606</i>	_____	1
Lube Oil	_____	1
De-Icing Fluid <i>MIL-A-8243</i>	_____	1
Strong Acids	_____	3
Strong Oxidants	_____	1
Esters/Ketones	_____	1
UV Light	_____	1
Petroleum	_____	1
Fungus <i>ASTM G-21</i>	_____	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
Flammability Rating	_____	V-0
Recommended Cutting	_____	Hot Knife
Colors	_____	1
Wall Thickness	_____	.025
Tensile Strength	_____	13,300 <i>ASTM D638 (PSI)</i>
Specific Gravity <i>ASTM D-792</i>	_____	1.32
Water Absorption	_____	<0.05 % <i>ASTM D-570</i>
Elongation	_____	50 <i>ASTM D638 (%)</i>
Electrical:		
Dielectric Strength	_____	>500 <i>ASTM D149 (V/Mil)</i>
Volume Resistivity	_____	>4.9x10 <sup>16</sup> <i>ASTM D257 (ohm-cm)</i>
Outgassing	_____	Low

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