

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



Material Polyetheretherketone

Grade PKN

Monofilament Diameter .010"

Drawing Number TF001PK-WD



Nominal	Part #	Expansion Range		Bulk	Shop	Available	Lbs/
Size		Min	Max	Spool	Spool	Colors	100′
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

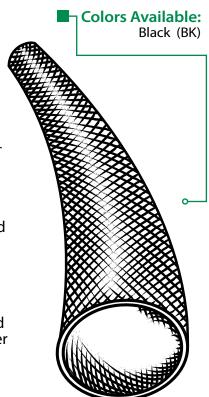
Put-Ups -

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.



A PEEK[®] is a registered trademark of the Victrex Corporation.



ADVANCED ENGINEERING **Technical Data Sheet**



FLAMMABILITY

Rating _____

V-0

CHEMICAL RESISTANCE

1=No Effect 2=Little Effect 3=Affected

4=More Affected 5=Severely Affected

Aromatic Solvents	1
Aliphatic Solvents	1
Chlorinated Solvents	
Weak Bases	1
Salts	1
Strong Bases	3
Salt Water 0-S-1926	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 ASTM G-21	1
Halogen Free	Yes
RoHS	Yes

Melt Point ASTM D-2117 633°F (334°C)-5004 Maximum Continuous Mil-I-23053 400* 500°F (260°C) 300* 200* 100

Minimum Continuous -94°F (-70°C). TURES

OPERATING TEMPERA

100*

-200*

O PHYSICAL PROPERTIES

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

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