



FLEXO[®] PEEK

HIGH PERFORMANCE TIGHTLY BRAIDED PEEK POLYMER FILAMENTS LOW OUTGASSING · VERY LIGHT WEIGHT

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 260°C, 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.

SIZING CHART

Nominal Size	Part #	Min Expansion	Max Expansion	*Put-Ups		Available Colors	Kgs/100m
				M	L		
3,2mm	PKN0.13	1,6mm	7,9mm	68,6m	304,8m	1	0,24
6,4mm	PKN0.25	2,8mm	14,3mm	61,0m	304,8m	1	0,28
9,5mm	PKN0.38	4,0mm	15,9mm	38,1m	152,4m	1	0,46
12,7mm	PKN0.50	4,8mm	23,8mm	30,5m	152,4m	1	0,65
15,9mm	PKN0.63	6,4mm	31,8mm	30,5m	152,4m	1	0,78
19,1mm	PKN0.75	9,5mm	34,9mm	22,9m	76,2m	1	0,95

*Put-Ups: "M" = Shop Spool and "L" = Bulk Spool



FEATURES

Material	Polyetheretherketone
Grade	PKN
Monofilament Diameter	0,25mm
Drawing Number	TF001PKN-WD
Cutting	Hot Knife

COLORS



Black (BK), Natural (NT)

CERTIFICATIONS



UL94V-0



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



ABRASION

Abrasion Resistance	MEDIUM
Abrasion Test Machine	Taber 5150
Abrasion Test Wheel	Calibrase H-18
Abrasion Test Load	500g
Room Temperature	°F / °C
Humidity	%
Material Destroyed	Test Cycles
Pre-Test Weight	mg
Post-Test Weight	mg
Test End Loss Of Mass Point Of Destruction	mg

PHYSICAL PROPERTIES

Monofilament Diameter (ASTM D-204)	0,25mm
Flammability Rating	UL94V-0
Recommended Cutting	Hot Knife
Colors	2
Wall Thickness	0,64mm
Tensile Strength (ASTM D638 PSI)	13 300
Specific Gravity (ASTM D-792)	1,3
Moisture 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

FLAMMABILITY

Rating	UL94V-0
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OPERATING TEMPERATURES

Melt Point (ASTM D-2117)	633°F / 334°C
Maximum Continuous (Mil-I-23053)	500°F / 260°C
Minimum Continuous (Mil-I-23053)	-94°F / -70°C

CHEMICAL RESISTANCE

1=No Effect 2=Little Effect 3=Affected 4=More Affected 5=Severely 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 (MIL-L-7808)	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
SVHC	