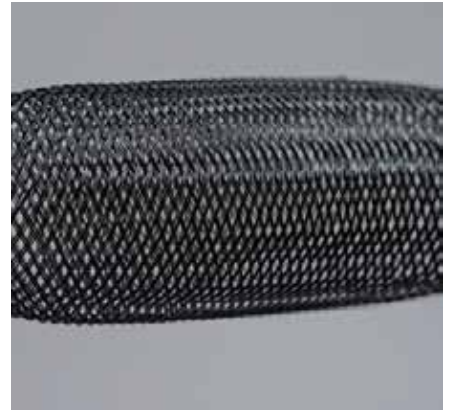
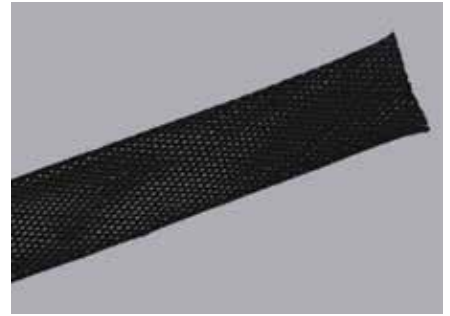


EXPANDABLE BRAIDED SLEEVING

MONOFLEX[®] PEEK



Monoflex[®] PEEK PRODUCT HIGHLIGHTS



Maximum Operating
Temperature: 260°C



Exhibits Low Outgassing



RoHS/REACH Compliant



Flame Resistant



Halogen Free

Atkins & Pearce's Monoflex[®] PEEK is the ideal expandable sleeving for aerospace and automotive industries, and is a biomaterial used in biomedical applications such as medical implants. Being made of the thermoplastic polymer Polyether Ether Ketone (PEEK), makes this particular sleeving ideal for environments that are very concerned with cleanliness. It easily tolerates several sterilization protocols and can withstand thousands of sterilization cycles. Monoflex[®] PEEK also does very well in high temperature environments and is inherently flame resistant. This self-extinguishing sleeving exhibits low outgassing and has high lubricity.

Monoflex[®] PEEK is available in a couple of colors to assist in special identification for safety and other needs. Below is a complete list of the standard sizes we offer in this sleeving. Additionally, cut lengths are available upon request.

NOMINAL ID	MAX EXPANSION	WALL THICKNESS
1/8 inch	5/16 inch	0.025 inch
1/4 inch	9/16 inch	0.025 inch
3/8 inch	5/8 inch	0.025 inch
1/2 inch	1 inch	0.025 inch
3/4 inch	1-3/8 inch	0.025 inch
1 inch	1-5/8 inch	0.025 inch

For additional information on Monoflex[®] PEEK's features and color offerings please contact our Sales & Marketing Team via phone or email at the addresses below.

Atkins&Pearce

One Braid Way, Covington, KY 41017 USA
1.800.837.7477 | info@atkinsandpearce.com | www.atkinsandpearce.com

EXPANDABLE BRAIDED SLEEVING

MONOFLEX[®] PEEK

Performance Metrics

PROPERTY (TEST)	RESULT
Abrasion (ASTM D-4060)	8,000 cycles
Hardness, Shore D (ASTM D-2240)	84.5
Heat Age @ 168 Hours (ASTM D-3045)	No cracking, melting, or deformation
Limiting Oxygen Index (ASTM D-2863)	24%
Low Temperature Flexibility (below freezing)	No cracking or deformation

Thermals

MAX OPERATING TEMPERATURE	MELTING POINT
260°C / 500°F	343°C / 649°F

Chemical Resistance

	Poor	Fair	Good	Excellent
Degradation by Alcohols	Red	Orange	Yellow	Green
Degradation by Alkali	Red	Orange	Yellow	Green
Degradation by Hydrocarbons	Red	Orange	Yellow	Green
Degradation by Ketones	Red	Orange	Yellow	Green
Degradation by Organic Acids	Red	Orange	Yellow	Green
Degradation by Strong Acids	Red	Orange	Yellow	Green
Degradation by UV Light	Red	Orange	Yellow	Green

Monofilament Properties

SINGLE-STRAND DIAMETER	0.01 inch
DENSITY	1.3 g/cc
SINGLE-STRAND TENSILE STRENGTH	4 lbs. (minimum)
MOISTURE ABSORPTION	0.07% - 0.45%
OUTGASSING	Low Outgassing



CONTACT US!

Our manufacturing facility and office is centrally located in northern Kentucky.



One Braid Way, Covington, KY 41017 USA

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LAST REVISED: April 2023 | The suggested application is provided by Atkins & Pearce merely as an additional tool to assist in making an appropriate selection. This is only provided to serve as suggestions of sleeving that may be appropriate based on certain criteria and should not be relied upon as determinative or as a substitute for customer testing. Many variables exist in a sleeve's flexibilities, resistances, and treatment. Final product selection should always be confirmed through the customer's own testing process to determine if a specific product is the correct choice for a particular application. Atkins & Pearce is not responsible for selections made by the customer using any of the reference material provided. For optimal performance in specific systems, we strongly recommend that customers conduct exhaustive tests in their own lab and consider retaining samples for their future internal reference. The importance of product testing and data validation cannot be overstated. As the customer, you and your company are responsible for appropriately testing all Atkins & Pearce product used in your application and for making the final selection based upon meeting appropriate safety and electrical standards. Atkins & Pearce makes no representation or warranty, expressed or implied, at law or in equity, in respect of the information provided, including, without limitation, with respect to merchantability or fitness for any particular purpose, which representations or warranties are hereby expressly disclaimed.