



ABRASION/MECHANICAL

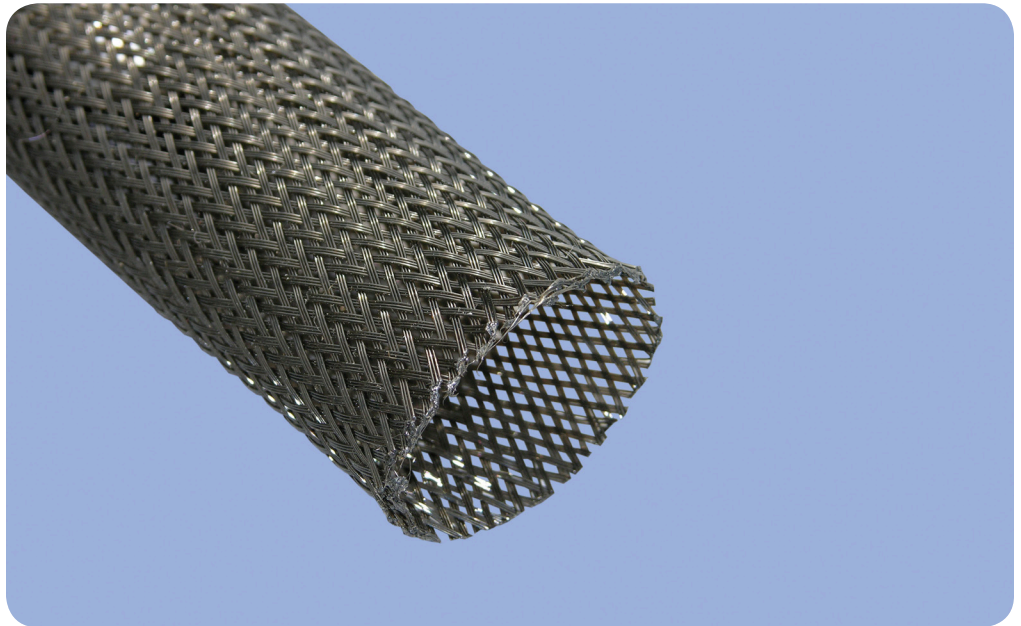
# Expando® PEEK

## Product Highlights

- Rated to 260°C, low temperature flexibility to -70°C
- Meets VW-1 requirements
- Low toxicity, smoke generation and offgassing
- Halogen-free
- Does not trap heat or humidity
- Rot-free
- Self-fitting over many shapes and sizes



Our manufacturing sites are certified ISO 9000, QS 9000 or ISO/TS 16949 and ISO 14001



**Expando® PEEK** (polyetheretherketone) is an expandable sleeve designed for mechanical protection in temperature extremes and hostile environmental conditions. Rated to 260°C, Expando PEEK meets VW-1 flammability requirements.

The inherent properties of PEEK give Expando PEEK low levels of flammability, toxicity, smoke generation, and hard vacuum offgassing. Because of its high use temperature, Expando PEEK resists damage from high temperature air guns used with heat-shrinkable elements such as strain reliefs, terminations, and identification sleeves.

Expando PEEK is used in the aerospace industry for its outstanding properties in extreme environments. This product should be considered for aircraft, space, military, marine, and hostile-environment applications.

Bentley-Harris® Expando products are tough, lightweight oversleeves used to protect cable assemblies, hoses and wire harnesses from chafing, cutting and abrading. The open-braid construction of Expando products enables each size to expand to fit several application shapes and diameters. This open-textile construction also makes them highly flexible and resistant to trapping water, heat and humidity.

**BentleyHarris®**  
Protection Products

# Performance Data – Expando® PEEK

Property	Test Method	Result
Filament Diameter		.010"
Melt Temperature	ASTM D-3418	334°C
Low Temperature Flexibility	MIL-DTL-23053E	-70°C
Flammability	UL 1441	VW-1
Smoke Density	ASTM E-662	Dmc = 19
Hard Vacuum TML CVCM WVR	ASTM E-595	Meets industry limits: 0.63% max 0.05% max 0.11% max
Fluid Resistance Jet Fuel JP-4 (MIL-T-5624) Hydraulic Fluid (MIL-H-5606) Lube Oil (MIL-I-7808) De-Ice Fluid (MIL-A-8243) Reference Oil #2 (ASTM D-471) Salt Water (O-S-1926)	MIL-DTL-23053	No visible degradation

## Product Specifications

Nominal Size (in)	Minimum Diameter (in)	Maximum Diameter (in)	Typical Weight (lb/ft)	Spool Length (ft)
1/8	1/16	1/4	0.0016	2,000
1/4	1/8	5/8	0.0028	1,000
1/2	1/4	7/8	0.0075	500
3/4	1/2	1 3/8	0.0120	500
1	1/2	1 3/4	0.0147	250
1 1/4	5/8	1 3/4	0.0160	250
1 3/4	3/4	2 1/4	0.0250	250
2	1 1/2	2 3/4	0.0320	250
2 1/2	1 7/8	3	0.0340	250

XX = Color Code    03 = Black    01 = Tan (Natural)

The information and illustrations given herein are believed to be reliable. Federal-Mogul makes no warranties as to their accuracy or completeness and disclaims any liability in connection with their use. Federal-Mogul's only obligations are those in the standard term of sale for this product and Federal-Mogul will not be liable for any consequential or other damages arising out of the use or misuse of this product. Users should make their own evaluations to determine the suitability of the product for specific applications.

©2007 Federal-Mogul Systems Protection, manufacturer of Bentley-Harris protection products.

**USA:** (1) 800 926 2472  
**Europe:** (33) 3 44 30 39 00  
**Japan:** (81) 45 938 8711  
**China:** (86) 21 5588 0898

[www.federal-mogul.com/sp](http://www.federal-mogul.com/sp)

**BentleyHarris®**  
Protection Products