

PEEK Sleeving

INTRODUCTION



Amphenol CDI (ACDI) PEEK Sleeving provides **lightweight, abrasion-resistant protection** for wire, cable, and harness assemblies in demanding aerospace and defense applications. Constructed from **polyether ether ketone (PEEK)**, a **high-performance thermoplastic**, PEEK sleeving offers **exceptional chemical resistance, mechanical strength, electrical insulation, and high-temperature performance**.

Designed for **weight-sensitive systems and harsh operating conditions**, PEEK sleeving helps **protect critical wiring from abrasion, fluids, and thermal stress**. Manufactured to strict quality standards, ACDI PEEK sleeving delivers dependable protection for mission-critical applications.

SPECIFICATIONS

Fiber Type	High Tensile & Tenacity Monofilament
Temperature Rating (continuous)	+482°F (250°C)
Breaking Tenacity	6.5
Tensile Strength	12-15 (82-103)
Breaking Elongation	20.0%
Specific Gravity	1.32



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MATERIAL CERTIFICATION

PROPERTIES:

A manufactured thermoplastic monofilament which the fiber is made from Polyetheretherketone as hot melt extrusion and hot drawn.

Physical Properties

Diameter 0.011" - 0.016"

Length: Continuous

Specific Gravity: 1.3 gm/cc

Mechanical Properties

Breaking Strength:

@ 73°F = 13000 PSI

@ 392°F = 2900 PSI

Water Absorption 24hrs: 0.2%

Elongation: 10%

Note: All data based on averages*

Electrical Properties

Volume Resistivity: 1×10^{16} ohm-in

Dielectric Strength: 600 Volt/mil

Dielectric Constant: 3.2-100MHz @ 75°F

Thermal Properties

Continuous Use: 1204°C - 2200°F

Short use: 1371°C - 2500°F

Lineal Shrinkage (2000°F-1093°C): 1,25%

Melting Point: 1800°F-3272°F

Thermal Expansion: 25-500°C 3.0×10^{-6}

Specific Heat: 0.25 BTU/lb./F or CAL/gm/°C

Resistance to Mildew, aging, Sunlight and Abrasion: Resistance to mildew, aging, & sunlight. Abrasion resistance is good.

Specifications: MIL-P-41683, type I Class I

EFFECTS:

Heat: Melts at 635°F

Acids and Alkalis: Unaffected by most minerals, acids, and alkalis. Except to Methanol, Acetone & Dichloromethane

Bleaches & Solvents: Dichloromethane degrades strength by 50% at temperature above 250°F

This information has been provided by the manufacturer and is accurate to the best of our knowledge