

PEEK insulated wires

PEEK insulated wires and strands are the perfect choice for use in demanding environments.

Properties

- Very good electrical properties (24 kV/mm IEC 60243-1)
- Thermal stability (-65 °C to +240 °C (UL 746), 300 °C for short periods)
- High hardness (D 85)
- Very low abrasion and out-gassing
- Chemical resistance
- Fire behaviour UL94 V-0, low-smoke, halogen-free
- Low water absorption
- Very good dynamic friction behaviour
- Not susceptible to stress fractures
- FDA-approved
- Chemically and steam sterilisable

Dimensions

AWG: 30 to 14
Nominal cross-sections:
0.14 mm² to 1.5 mm²
(Other dimensions on request)

This universal insulation material is biologically inert, odourless and physiologically safe, and can even replace ceramic and metallic materials in some application areas.

Typical applications include industrial magnets and winding wire for motors.

Other applications:

- Cables with very low wall strengths
- High-voltage systems
- Aerospace
- Medical technology (biocompatible, re-sterilisable, X-ray-permeable)
- Chemicals industry (wherever demanding mechanical, thermal and chemical requirements are specified)
- Food industry
- Ultra-high-vacuum technology (very low out-gassing)
- Marine technology
- Automotive industry

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