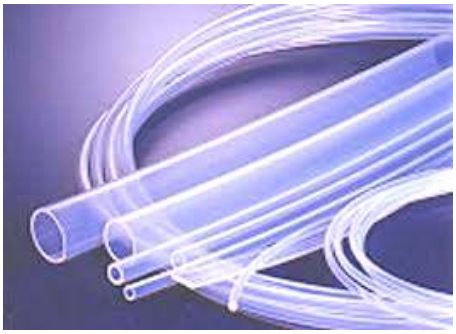
Seflon®

PFA Tubing

PFA, or perfluoroalkoxy , is recognized for its ability to maintain mechanical integrity in extreme temperatures even when subject to coustic chemical . The qualities of PFA include high clarity, flexibility, and chemical resistance. This versatility has led to PFA being a popular material selection in the semiconductor, chemical, oil & gas, aerospace, automotive, pharmaceutical, fiber optics and medical industries.

Properties:



- Excellent clarity and flexibility
- Maximum service temperature of 260°C/500°F
- Chemically resistant to all common solvents
- Maintains mechanical strength at high temperatures
- Low gas and chemical permeability
- Smoother surface texture

Applications

Aerospace: PFA is used to serves as a flexible conduit to protect wires, cables and fiber optics from abrasion due to its mechanical integrity. The resin can be utilized in tubing form for fluid transfer applications that require excellent chemical resistance or air passage. PFA is non-flammable and resilient in a wide range of temperatures, ranging from low temperature to 500ºF (260ºC).

Automotive: PFA is excellent for wire hardness insulation due to its dielectric strength. It is also very smooth, providing dry lubrication solutions for a variety of applications. The resin can stand up to wide temperature variances with a working temperature range of up to 500ºF (260ºC). PFA is chemically resistant for critical fluid transfer, possesses UV resistance

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Critical Fluid Transfer: The chemical resistance, mechanical integrity and high maximum temperature resistance of PFA are ideal for critical fluid transfer. It can handle a wide range of acids, bases and solvents. PFA making it an excellent selection for semiconductor clean room applications that require a high degree of purity and low metallic contamination.

Electrical: PFA provides great electrical insulation as well as chemical resistance. These attributes serve it well in multiple extruded forms at high continuous service temperatures up to 500ºF (260ºC).

Fiber Optics: The chemical inertness of PFA provides a perfect jacketing material for easily sliding over fiber optics without damaging the delicate fibers. The material is UV and chemically resistant while having the ability to operate in a variety of extremes temperatures up to 500ºF (260ºC).

General Industrial: PFA is a highly lubricous fluoropolymer, positioning it as an ideal material for analytical and chemical transfer applications.

Oil & Gas: PFA has excellent heat resistance at working temperatures of up to 500ºF (260ºC). The material is also a good insulator when manufactured as a tube or custom shaped for slot liner applications. The material also can be made into a heat shrinkable form for specialized battery pack or rock core encapsulation applications due to its clarity, chemical and temperature resistance.

Medical: PFA is a highly lubricious fluoropolymer that can be manufactured in a variety of extruded products including custom sizes and profiles. PFA may be sterilized using gamma, e-beam, or autoclave sterilization which makes it a versatile material in medical applications. In addition, PFA can be sourced with flares, flanges, draw downs, drilled holes, or a combination of more than one Optimized Tubing Solution.