

Datasheet PFA Tubing

PFA is a melt processable fluoropolymer resin with a very high purity. Its properties are those of PTFE and include resistance to practically all chemicals, broad temperature range, resistance to weathering, low friction and excellent electrical insulation properties. More specifically, PFA is a fluorocarbon where the carbon atoms are fully bonded to fluorine atoms. The carbon-fluorine single bond is among the strongest known and results in PFA being virtually chemically inert and nonwettable by fluids such as water. General plastics and elastomers, in contrast to metals, absorb varying quantities of materials they contact, especially organic liquids. Absorptives in PFA are unusually low and a chemical reaction between the resin and other substances is rare. Closely related to absorption is permeation. PFA displays the highest resistance to creep of all fluoropolymer resins except PTFE, which is important in the design of fluid handling systems.

<u>General</u>

Upper service temperature 260 °C Chemical resistance excellent Specific gravity 2.15 Melting point 305 °C

Electrical

Dielectric constant 2.1 Dielectric dissipation factor 0.0002 Dielectric strength > 2000 Volt / mil

Mechanical

Tensile strength 4000 psi Elongation 300 % Compressive strength 2200 psi Flexural Modulus 100 000 psi Hardness D-60

<u>Enviromental</u>

Water absorption < 0.03 % Water resistance excellent Oxygen index >95 % Flammability UL 94 V-0







Rugvænget 19C 2630 Tåstrup tlf. +45 7384 1230 infd@pgflowteknik.dk www.pgflowteknik.dk