

Additional specifications for HPLC low pressure PFA tubing - Tech Information

Some extruders of PFA tubing list the specifications below on their website.

Physical

Density (g/cc): 2.12 - 2.17

Water Absorption (%) < 0.03 Standard Percent Crystallinity (%): 48 - 70

Refraction Index: 1.350 Radiation Resistance (MRad): 1 - 10 Oxygen Index (%): > 95

Mechanical

Hardness, Shore D: 55 - 60

Ultimate Tensile Strength (MPa): 25 - 28

Elongation at Break (%): 250 - 420

Modulus of Elasticity (GPa): 0.48

Flexural Modulus (GPa): 0.50 - 0.70

Coefficient of Friction: 0.04 - 0.20

Electric

Volume Resistivity (Ω -cm): 1.0×10^{18}

Dielectric Constant: 1 MHz 1.9 - 2.1

Dielectric Strength (V/mil): 2030

Thermal

Thermal Conductivity (W/m-K): 0.15 - 0.25

Maximum Service Temp, Air (°C): 260

Minimum Service Temp, Air (°C): -200

Melt Temp (°C): 300 - 315

Glass Temp (°C): 90

Decomposition Temp (°C): 475

Coefficient of Thermal Expansion, linear 20° ($\mu\text{m}/\text{m}-^{\circ}\text{C}$): 120 - 140

Click [HERE](#) for Low Pressure, HPLC Tubing Ordering Information