



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 ($^{\circ}$ C): 260

Minimum Service Temp, Air ($^{\circ}$ C): -200

Melt Temp ($^{\circ}$ C): 300 – 315

Glass Temp ($^{\circ}$ C): 90

Decomposition Temp ($^{\circ}$ C): 475

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

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

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MicroSolv Technology Corporation

9158 Industrial Blvd. NE, Leland, NC 28451

tel. (732) 380-8900, fax (910) 769-9435

Email: customers@mtc-usa.com

Website: www.mtc-usa.com

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