



## 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 ( $\Omega$ -cm):  $1.0 \times 10^{18}$



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° (µm/m-°C): 120 - 140

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