



## 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 ( $^{\circ}$ 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  $20^{\circ}$  ( $\mu$ m/m- $^{\circ}$ C): 120 - 140

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

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