



## Teflon® PFA HP Safeguards Purity in Analytical Systems

Upchurch Scientific® meets the need for ultra-high-purity tubing and fittings in the analytical instrument and semiconductor markets with DuPont™ Teflon® PFA HP fluoropolymer. Applications for such components include high performance liquid chromatography (HPLC), semiconductor-based analytical systems for pharmaceutical research and for fluid handling systems in manufacturing semiconductor microelectronic devices.

Using its proprietary process, Upchurch injection molds precise, tight-tolerance parts from Teflon® PFA HP to its customers' specifications. The company also custom extrudes tubing from the material in continuous or cut tubing lengths:

- ODs from 0.030 to 0.250 in. (0.76 to 6.4 mm)
- Walls as thin as 0.005 in. (0.13 mm)
- IDs as small as 0.010 in. (0.25 mm)
- Standard tolerances of  $\pm 0.001$  in. ( $\pm 0.025$  mm) OD and ID for  $1/16$  in. (1.6 mm) OD tubing
- Custom tubing forming, assemblies, kits, packaging and labeling.

Upchurch Scientific® also extrudes and molds products from other grades of DuPont™ Teflon® PFA, Teflon® FEP and Tefzel® fluoropolymer resins.

### Manufacturer



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### Benefits Gained

**Accurate assays.** The exceptional purity of Teflon® PFA HP helps prevent contamination of critical chemical and biological fluids. Through precise manufacturing techniques, Upchurch reports that it can ensure reliable fluid-transfer connections and reproducible volume transfers.

**Versatility.** Thanks to the purity, chemical resistance and relatively high operating temperature of Teflon® PFA HP, Upchurch's tubing and fittings can be used with a broad range of processes, solvents and samples.

**Ease of Use.** Upchurch's flangeless fittings design avoids the need for flared tubing, greatly simplifying establishment of tubing connections and reconnections.

### Material Selected and Why

Teflon® PFA 440 HP meets purity, cleanliness and chemical compatibility requirements as well as tight extrusion and injection molding tolerances.

### For More Information...

Contact Upchurch Scientific, your local DuPont representative or the nearest DuPont location.

[www.teflon.com](http://www.teflon.com)



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**CAUTION:** Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Medical Caution Statement," H-50102.

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