



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 ± 0.001 in. (± 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



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