



Fluoropolymer Tubing Materials Guide

As experts in the fluoropolymer market, we understand the importance of choosing the right material for your application. While each fluoropolymer material enjoys common attributes that run through all fluoroplastics; excellent chemical resistance; superior temperature performance and inherent purity, each material also has many individual characteristics.

To help you begin the process of material selection, we have created a handy chart.

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Choose from the characteristics below to help you find suitable tubing materials/products for your application:

	Characteristic	PTFE	PTFE convoluted	FEP	PFA	PVDF	ETFE	THV	PEEK*
	High temperature	✓	✓		✓				✓
	Totally inert	✓	✓	✓	✓				
	Partially inert					✓	✓	✓	
	Stiff/hard					✓	✓		✓
	Flexible	✓	✓	✓	✓				
	Soft							✓	
	Low permeation			✓	✓	✓	✓	✓	✓
	Thermoformable			✓	✓	✓	✓	✓	✓
	Clear			✓	✓			✓	
	Translucent	✓	✓						
	Opaque	✓				✓	✓		✓
	Good pressure performance at high temperature				✓				✓
	Good pressure performance at room temperature				✓	✓	✓		✓
	Very smooth surfaces			✓	✓	✓			
	Non-flammable/ LOI >95%	✓	✓	✓	✓				
	High purity grades			✓	✓				
	Abrasion resistant					✓	✓		✓

*Non-fluoropolymer but still high performance. IMPORTANT: The data given here is only a general guide and should not be used as the basis for component design.