



# Fluoropolymer Tubing Materials Guide

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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.

[www.polyflon.co.uk](http://www.polyflon.co.uk)



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.