

Fluon® PFA Chemical Resistance Chart

Chemical Resistance

Fluon® PFA has excellent chemical resistance, specifically inorganic acids and other compounds. The table below shows the effect of various chemicals on Fluon® PFA.

The reported results were obtained by using micro-tensile bars of 1-mm thickness. Property changes less than 15% are acceptable for usage.

Table

Chemical Name	Temp (C°)	Days	Tensile Strength (%)	Elongation (%)	Wt., Change (%)
Sulfuric acid/Hydrogen peroxide*	150	28	85	103	0.40
Oleum	25	28	88	91	0.61
Conc. hydrochloric acid	100	28	94	105	0.44
Ethanol	78	7	88	124	0.09
Acetone	56	7	93	119	0.31
Carbon tetrachloride	78	7	81	116	2.49
Chloroform	61	7	97	109	1.49
Toluene	110	7	99	111	0.77
Xylene	138	7	95	104	0.72
Benzene	80	7	100	108	0.56
n-Hexane	64	7	87	100	0.53
Methylethylketone	80	7	86	94	0.61
Ethyl acetate	77	7	94	100	0.59
Aniline	185	7	90	97	0.30
Phenol	182	7	84	94	1.33

*96% Sulfuric acid/35% Hydrogen peroxide = 70/30 wt ratio. Changed every 7 days.

NOTE: The data listed here represents typical values for the stated grades of Fluon® PFA. This information should be used as a guide only and not to establish specification limits or design criteria. AGC Chemicals Americas assumes no obligation or liability for any advice furnished by us or for results obtained with respect to this product. All such advice is provided free of charge and the buyer assumes sole responsibility for results obtained in reliance thereon.

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