FluoroGrip® - F

Teflon® (FEP) Fluoropolymer

CHEMICAL RESISTANCE DATA

Chemical	Test Temperature °C	°F	% Retained Physicals Tensile	Elongation	% Weight Gain
INORGANIC CHEMICALS					
Mineral Acid					
Hydrochloric (Conc)	120	248	98	100	0.0
Sulfuric (Conc)	120	248	95	98	0.0
Hydrofluoric (60%)	23	73	99	99	0.0
Fuming Sulfuric	23	73	95	96	0.0
Oxidizing Acids					
Aqua Regia	120	248	99	100	0.0
Chromic (50%)	120	248	93	97	0.0
Nitric (Conc)	120	248	95	98	0.0
Fuming Nitric	23	73	99	99	0.0
Inorganic Bases					
Ammonium Hydroxide (Conc)	66	150	98	100	0.0
Sodium Hydroxide (50%)	120	248	93	99	0.4
Peroxide					
Hydrogen Peroxide (30%)	23	73	93	95	0.0
Halogens					
Bromine	23	73	99	100	0.5
Bromine	59*	138	95	95	**
Chlorine	120	248	92	100	0.5
Metal Salt Solutions					
Ferric Chloride	100	212	93	98	0.0
Zinc Chloride (25%)	100	212	96	100	0.0
Other Inorganics					
Sulfuryl Chloride	69*	156	83	100	2.7
Chlorosulfonic Acid	151*	304	91	100	0.7
Phosphoric Acid (Conc)	100	212	93	100	0.0
ORGANIC CHEMICALS					
Acids / Anhydrides					
Glacial Acetic Acid	118*	244	95	100	0.4
Acetic Anhydride	139*	282	91	99	0.3
Trichloracetic Acid	196*	384	90	100	2.2
Hydrocarbons					
Isooctane	99*	210	94	100	0.7
Naphtha	100	212	91	100	0.5
Mineral Oil	180	356	87	95	0.0
Toluene	110	230	88	100	0.7

* Boiling Point

** No Data

Chemical	Test Temperature °C	°F	% Retained Physicals Tensile	Elongation	% Weight Gain
ORGANIC CHEMICALS					
Functional Aromatics					
O-Cresol	191*	376	92	96	0.2
Nitrobenzene	210*	410	90	100	0.7
Alcohol					
Benzyl Alcohol	205*	401*	93	99	0.3
Amines					
Aniline	185*	365	94	100	0.3
nButylamine	78*	172	86	97	0.4
Ethylenediamine	117*	242	96	100	0.1
Ether					
Tetrahydrofuran	66*	151	88	100	0.7
Ketones / Aldehydes					
Benzaldehyde	179*	355	90	99	0.5
Cyclohexanone	156*	312	92	100	0.4
Methyl Ethyl Ketone	80*	176	90	100	0.4
Acetophenone	202*	396	90	100	0.6
Esters					
Dimethylphthalate	220	392	98	100	0.3
nButylacetate	125*	257	93	100	0.5
Tri-n-Butyl Phosphate	200	392	91	100	2.0
Chlorinated Solvents					
Methylene Chloride	40*	104	94	100	0.8
Perchloroethylene	121*	250	86	100	2.0
Carbon Tetrachloride	77*	171	87	100	2.3
Polymer Solvents					
Dimethylformamide	154*	309	96	100	0.2
Dimethylsulfoxide	189*	372	95	100	0.1
Dioxane	101*	214	92	100	0.6

* Boiling Point
** No Data

Chemical	Exposure Results % Concentration	%Weight Change
Hydrochloric Acid	35	0.0
Sulfuric Acid	98	0.0
Nitric Acid	60	-0.1
Fluoric Acid	50	0.0
Acetic Acid	50	0.0
Chromic Acid	50	0.0
Acetic Anhydride	100	+0.1
Caustic Soda	50	0.0
Ammonia Water	100	0.0
Potassium Dichromate	50	0.0
Sodium Chloride	28	0.0
Methyl Alcohol	10	0.0
Ethyl Alcohol	30	0.0
Acetone	100	+0.2
Carbon Tetrachloride	100	+2.2
Chloroform	100	+1.1
Trichloroethylene	100	+1.1
Toluene	100	+0.3
Xylene	100	+0.3
Benzene	100	+0.4
n-Hexane	100	+0.5
Methyl Ethyl Ketone	100	+0.3
Aniline	100	0.0
Ethyl Acetate	100	+0.3
Ether	100	+0.3
Dioxane	100	+0.3
Diethylamine	100	+0.6
Formaldehyde	100	0.0
Phenol	100	0.0

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