

Professional Plastics, Inc. Chemical Resistance Chart # 1

CHART KEY:	E = Excellent, G = Good, F = Fair, X = Not Recommended, NT = Not Tested													
	First letter represents testing at ambient temperature. Second letter represents testing at 120°F or higher. Data may only be available for ambient temperature.													
Chemical Resistance Chart	FEP	PFA	PVDF	ETEE	ECTFE	PCTFE	PEEK	Poly-carbonate	Poly-sulfone	Ulltem	Radel	Poly-propylene	Acetal	Cast Acrylic
Acetaldehyde	E/E	E/E	X	E/E	G	G	E/E	X	NT	NT	NT	G	G	X
Acetic Acid, 10%	E/E	E/E	E/E	E/E	G	G	E/E	X	G/F	E/G	E/G	E/E	G/X	G
Acetic Acid, 50%	E/E	E/E	E/E	E/E	G	G	E/E	X	F/F	G/F	G/F	E/G	X	X
Acetic Acid, 97%	E/E	E/E	E/E	E/E	G	G	E/E	X	X	X	X	E/G	X	X
Acetone	E/E	E/E	X	E/F	E/G	E/G	E/E	X	X	G	G	E/E	F/F	X
Aluminum Chloride	E/E	E/E	E/E	E/E	E/E	E/E	E/E	G	NT	NT	NT	E/G	NT	E
Aluminum Hydroxide	E/E	E/E	E/E	E/E	E/E	E/E	E/E	NT	NT	NT	NT	E/E	G	NT
Aluminum Sulfate	E/E	E/E	E/E	NT	E/E	E/E	E/E	G	E	E	E	E/E	E	E
Ammonia, aqueous	E/E	E/E	X	E/E	E/E	E/E	E/E	X	F	F	F	E/E	G/G	X
Ammonia, anhydrous	E/E	E/E	X	E/E	E/E	E/E	E/E	X	F	F	F	E/E	NT	NT
Ammonium Chloride	E/E	E/E	E/E	E/E	E/E	E/E	E/E	G	E	E	E	E/G	E/G	G
Ammonium Hydroxide	E/E	E/E	E/E	E/E	E/E	E/E	E/E	X	G	G	G	G/G	F/X	G
Ammonium Nitrate	E/E	E/E	E/E	E/E	E/E	E/E	E/E	G	E/E	E/E	E/E	E/E	NT	G
Ammonium Phosphate	E/E	E/E	E/E	E/E	E/E	E/E	E/E	NT	NT	NT	NT	G/G	NT	NT
Chemical Resistance Chart	FEP	PFA	PVDF	ETEE	ECTFE	PCTFE	PEEK	Poly-carbonate	Poly-sulfone	Ulltem	Radel	Poly-propylene	Acetal	Cast Acrylic
Amyl Acetate	E/E	E/E	E/F	E/E	E/X	E/X	E/E	X	X	X	X	G/X	G	G
Amyl Alcohol	E/E	E/E	E/E	E/E	E/E	E/E	NT	F	E/E	E/E	E/E	E/F	G	X
Amyl Chloride	E/E	E/E	E/E	E/E	E/E	E/E	NT	NT	NT	NT	NT	X/X	NT	NT
Antifreeze	E/E	E/E	E/E	NT	E/E	E/E	NT	X	F/X	G/G	G/G	E/G	G	X
Barium Carbonate	E/E	E/E	E/E	E/E	E/E	E/E	NT	NT	NT	NT	NT	E/E	NT	NT
Barium Chloride	E/E	E/E	E/E	E/E	E/E	E/E	E	E	E/E	NT	NT	E/E	NT	NT
Benzaldehyde	E/E	E/E	F	E/E	E/E	E/E	E	X	X/X	F/F	F/F	E/E	G	X
Benzene	E/E	E/E	E/E	E/E	G/X	G/X	E/E	X	X/X	F/F	F/F	G/F	G/G	X
Benzoic Acid	E/E	E/E	E/E	E/E	E/E	E/E	E/E	X	NT	NT	NT	E/E	F	X
Benzyl Alcohol	E/E	E/E	E/E	E/E	G/X	G/X	E	X	NT	NT	NT	E/E	G	X
Borax	E/E	E/E	E/E	E/E	E/E	E/E	NT	G	NT	NT	NT	E/E	NT	F
Boric Acid	E/E	E/E	E/E	E/E	E/E	E/E	E/E	X	NT	NT	NT	E/E	G	G
Bromic Acid	E/E	E/E	E/E	E/E	E/E	E/E	NT	X	NT	NT	NT	X/X	NT	X
Bromine	E/E	E/E	E/E	E/F	E/E	E/E	X	X	G	G	G	X/X	X	X

Chemical Resistance Chart	FEP	PFA	PVDF	ETEE	ECTFE	PCTFE	PEEK	Poly-carbonate	Poly-sulfone	Ulltem	Radel	Poly-propylene	Acetal	Cast Acrylic
Sulfuric Acid, 98%	E/E	E/E	E/G	E/E	E/E	E/E	X	X	X	X	X	G/X	X	X
Tannic Acid	E/E	E/E	E/E	E/E	E/E	E/E	E/E	NT	NT	NT	NT	E/E	NT	G
Toluene	E/E	E/E	E/G	E/E	G/X	G/X	E	X	X	X	X	X/X	G/F	X
Trichloroethylene	E/E	E/E	E/E	E/E	E/E	X	E/E	X	X	G	G	X/X	X	X
Turpentine	E/E	E/E	E/E	E/E	E/E	E/E	E	X	X	X	X	X/X	G	X
Xylene	E/E	E/E	E/E	E/E	E/E	G/X	E	X	X	F	F	F/X	G	X
Zinc Chloride	E/E	E/E	E/E	E/E	E/E	E/E	E/E	G	E/E	E/E	E/E	E/E	G	G
Zinc Oxide	E/E	E/E	E/E	E/E	E/E	E/E	E/E	NT	NT	NT	NT	E/E	NT	NT
Zinc Sulfate	E/E	E/E	E/E	E/E	E/E	E/E	E/E	G	NT	NT	NT	E/E	NT	G

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Please Note: To the best of our knowledge, the information contained in this guide is accurate, is based upon accepted technical practices and is believed to be reliable. Final determination of suitability of any process or material is the sole responsibility of the user. Professional Plastics, Inc. does not assume any liability for the accuracy or completeness of this information.

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