Chemical Resistance Chart

Resistance

E = Excellent
G = Good
F = Fair
N = Not Recommended

Material

PTFE = Polytetrafluoroethylene including of Teflon®
SS = Stainless Steel (316)
PE#1 = Conventional Polyethylene
PE#2 = Rigid Polyethylene
PP = Polypropylene
PVC = Polyvinylchloride

This information, based on experience to date, is believed to be reliable. It is intended as a guide for use at your own discretion and risk. All indications refer to room temperature.

Chemical	PTFE	SS	PE#1	PE#2	PP	PVC
Acetaldehyde	E	E	G	G	G	G
Acetamide	E	E	E	E	E	N
Acetic Acid, 5%	E	E	E	E	E	E
Acetic Acid, 50%	E	E	E	E	E	E
Acetone	E	E	E	E	E	E
Aluminum Hydroxide	E	E	E	E	E	E
Ammonia	E	E	E	E	E	E
Ammonium Hydroxide	E	E	E	E	E	E
Ammonium Oxalate	E	E	E	E	E	E
n-Amyl Acetate	E	E	G	E	G	F
Amyl Chloride	E	--	N	F	N	N
Aniline	E	E	E	E	G	N
Chemical	**PTFE**	**SS**	**PE#1**	**PE#2**	**PP**	**PVC**
Benzaldehyde	E	--	E	E	E	N
Benzene	E	E	F	G	G	N
Benzoic Acid, Sat.	E	E	E	E	E	E
Benzyl Acetate	E	--	E	E	E	F
Boric Acid	E	F	E	E	E	E
Bromine	E	N	N	F	N	G
Bromobenzene	E	--	N	F	N	F

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n-Butyl Acetate	E	F	G	E	G	N
sec-Butyl Alcohol	E	--	E	E	E	G
Butyric Acid	E	E	N	F	N	G
Chemical	**PTFE**	**SS**	**PE#1**	**PE#2**	**PP**	**PVC**
Calcium Hypochlorite	E	F	E	E	E	G
Carbazole	E	--	E	E	E	N
Carbon Disulfide	E	E	N	N	E	N
Carbon Tetrachloride	E	G	F	G	G	G
Chlorine	E	G	G	G	G	E
Chloroacetic Acid	E	F	E	E	E	F
Chloroform	E	E	F	G	G	N
Chromic Acid	E	G	E	E	E	E
Citric Acid	E	E	E	E	E	G
Cresol	E	E	N	F	E	N
Cyclohexane	E	E	G	E	G	G
Chemical	**PTFE**	**SS**	**PE#1**	**PE#2**	**PP**	**PVC**
Decalin	E	--	G	E	G	E
o-Dichlorobenzene	E	--	F	F	F	G
p-Dichlorobenzene	E	--	F	G	E	N
Diethyl Benzene	E	--	N	F	N	N
Diethyl Ether	E	--	N	F	N	F
Diethyl Ketone	E	--	G	G	G	N
Diethyl Malonate	E	--	E	E	E	G
Dimethyl Formamide	E	--	E	E	E	F
Chemical	**PTFE**	**SS**	**PE#1**	**PE#2**	**PP**	**PVC**
Ether	E	E	N	F	N	F
Ethyl Acetate	E	E	E	E	E	F
Ethyl Benzene	E	--	F	G	F	N
Ethyl Benzoate	E	--	F	G	G	N
Ethyl Butyrate	E	--	G	G	G	N
Ethyl Chloride, Liquid	E	E	F	G	F	N
Ethyl Cyanoacetate	E	--	E	E	E	NF
Ethyl Lactate	E	--	E	E	E	F
Ethylene Chloride	E	E	G	G	G	N
Ethylene Glycol	E	E	E	E	E	E
Ethylene Oxide	E	--	F	G	F	F
Chemical	**PTFE**	**SS**	**PE#1**	**PE#2**	**PP**	**PVC**
Fluorine	G	--	F	G	G	N

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Formic Acid, 50%	E	F	E	E	E	G
Formic Acid, 90-100%	E	N	E	E	E	F
Fuel Oil	E	E	F	G	E	E
Gasoline	E	E	F	G	E	G
Glycerine	E	E	E	E	E	E
Chemical	**PTFE**	**SS**	**PE#1**	**PE#2**	**PP**	**PVC**
n-Heptane	E	E	F	G	E	F
Hexane	E	E	N	G	E	G
Hydrochloric Acid, 1-5%	E	N	E	E	E	E
Hydrochloric Acid, 35%	E	N	E	E	E	G
Hydrofluoric Acid, 4%	E	N	E	E	E	G
Hydrofluoric Acid, 48%	E	N	E	E	E	G
Hydrogen	E	--	E	E	E	E
Hydrogen Peroxide	E	F	E	E	E	E
Chemical	**PTFE**	**SS**	**PE#1**	**PE#2**	**PP**	**PVC**
Isopropyl Acetate	E	--	G	E	G	N
Isopropyl Benzene	E	--	F	G	F	N
Kerosene	E	E	F	G	G	E
Lactic Acid, 3%	E	G	E	E	E	G
Lactic Acid, 85%	E	F	E	E	E	G
Chemical	**PTFE**	**SS**	**PE#1**	**PE#2**	**PP**	**PVC**
Magnesium Salts	E	G	E	E	E	E
Methoxyethyl Oleate	E	--	E	E	E	N
Methyl Ethyl Ketone	E	E	E	E	E	N
Methyl Isobutyl Ketone	E	E	G	E	G	N
Methyl Propyl Ketone	E	--	G	E	G	N
Methylene Chloride	E	E	F	G	F	N
Chemical	**PTFE**	**SS**	**PE#1**	**PE#2**	**PP**	**PVC**
Nitric Acid, 50%	E	G	E	G	G	G
Nitric Acid, 70%	E	N	E	G	G	F
Nitrobenzene	E	E	F	G	F	N
n-Octane	E	--	E	E	E	F
Orange Oil	E	--	F	G	G	F
Chemical	**PTFE**	**SS**	**PE#1**	**PE#2**	**PP**	**PVC**
Perchloric Acid	E	--	G	G	G	G
Perchloroethylene	E	E	N	N	N	N
Phenol, Crystals	E	E	G	G	G	F

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Phosphoric Acid, 1-5%	E	E	E	E	E	E
Phosphoric Acid, 85%	E	G	E	E	E	E
Potassium Hydroxide	E	G	E	E	E	E
Propane Gas	E	E	N	F	N	E
Propylene Glycol	E	E	E	E	E	F
Propylene Oxide	E	--	E	E	E	F
Chemical	**PTFE**	**SS**	**PE#1**	**PE#2**	**PP**	**PVC**
Resorcinol	E	--	E	E	E	F
Salicylaldehyde	E	--	E	E	E	F
Sulfuric Acid, 1-6%	E	F	E	E	E	E
Sulfuric Acid, 20%	E	N	E	E	E	E
Sulfuric Acid, 60%	E	N	E	E	E	E
Sulfuric Acid, 98%	E	N	E	E	E	N
Sulfur Dioxide, Liq.	E	E	N	F	N	F
Sulfur Salts	E	E	F	G	F	N
Chemical	**PTFE**	**SS**	**PE#1**	**PE#2**	**PP**	**PVC**
Tartaric Acid	E	G	E	E	E	E
Tetrahydrofuran	E	E	F	G	G	N
Thionyl Chloride	E	--	N	N	N	N
Toluene	E	E	F	G	G	F
Trichloroethane	E	E	N	F	N	N
Trichloroethylene	E	E	N	F	N	N
Turpentine	E	E	F	G	G	G
Vinylidene Chloride	E	--	N	F	N	N
Xylene	E	E	G	G	F	N
Zinc Salts/Stearate	E	G	E	E	E	E

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