

Room Temperature

Chemical Resistance Chart

	PTFE Teflon	Stain. Steel	Conv. PE	Rigid PE	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
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
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
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

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Citric Acid	E	E	E	E	E	G
Cresol	E	E	N	F	E	N
Cyclohexane	E	E	G	E	G	G
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
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	N
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
Fluorine	G	-	F	G	G	N
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
n-Heptane	E	E	F	G	E	F
Hexane	E	E	N	G	E	G

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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
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
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
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
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
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, Liquid	E	E	N	F	N	F
Sulfur Salts	E	E	F	G	F	N
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
Trochloroethylene	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

EXCELLENT

30 days of constant exposure causes no damage. Plastic may tolerate for 30 years.

GOOD

Little or no damage after 30 days of constant exposure to the reagent.

FAIR

Some effect after 7 days of constant exposure to the reagent. The effect may be crazing, cracking, loss of strength or discoloration.

NOT RECOMMENDED

Immediate damage may occur. Depending on the plastic, the effect may be severe crazing, cracking, loss of strength or discoloration, deformation, dissolution or permeation loss.

Pipeline Packaging offers several chemical compatibility reference charts to help you determine the appropriate resin for your specific chemical needs. **Please note that these charts are for reference only.** Many factors can affect the chemical resistance of a given plastic product, and it is your responsibility to do a test under your own conditions to ensure that the product you are using is fully compatible with your usage.