

# Resin Compatibility » Common Chemicals

Product	PET						
	LDPE	HDPE	PP	PVC	PET-SAN	PS	G
Acetic acid, glacial	2	1	1	4	4	4	4
Acetone	2	1	1	4	4	4	4
Alcohol: Ethyl	2	1	1	1	1	2	2
Alcohol: Methyl	1	1	1	1	1	2	1
Alcohol: N-Propyl	1	1	1	1	1	2	2
Aliphatic (Straight chain) Hydrocarbons, simple	4	2	2	1	1	2	4
Ammonia 28%	2	1	1	1	3	2	2
Battery electrolyte	1	1	1	2	2	1	2
Benzene, xylene and other aromatic hydrocarbons	4	4	4	4	4	4	4
Bromine, liquid	4	4	2	4	4	4	4
Carbon tetrachloride and other chlorinated hydrocarbons	4	4	4	4	4	4	4
Chromic acid below 40%	1	1	1	1	1	2	2
Chromic acid 40% or above	2	1	1	1	3	2	4
Dipropylene Glycol	1	1	1	1	3	1	1
Ethers, simple	4	4	4	2	3	4	4
Ethyl acetate and other simple esters	2	2	2	4	4	4	4
Ethylene glycol	1	1	1	1	2	1	1
Formaldehyde 36%	1	1	1	1	3	2	4
Formic acid	1	1	1	1	3	2	2
Gasoline	4	2	2	2	2	2	4
Hexachlorophene	2	1	3	2	3	3	3

Hydrobromic acid 48%	1	1	2	1	3	2	2
Hydrochloric (muriatic) acid 36% or 22.4° Be	1	1	1	1	2	1	2
Hydrofluoric acid up to 52%	1	1	1	1	3	4	4
Hydrofluosilicic acid up to 26%	1	1	3	3	3	3	2
Hydrogen peroxide up to 30%	1	1	1	1	1	1	2
Kerosene; naphtha, mineral spirits, petroleum distillate or Stoddard solvent	4	2	3	2	2	1	4
Mercury, metal	1	1	1	1	3	1	1
Methyl ethyl ketone (MEK)	2	2	2	4	4	4	4
MEK peroxide	3	1	3	4	3	4	4
Nitric acid under 20%	1	1	1	1	1	2	4
Nitric acid 20-70%	2	2	2	1	3	4	4
Oxalic acid	1	1	1	1	3	1	1
Phenol	2	2	1	2	4	4	4
Phosphoric acid 85% or 59° Be	1	1	1	1	3	1	2
Potassium hydroxide	1	1	1	1	3	2	2
Quaternary ammonium salt solutions	1	1	1	1	3	2	2
Sodium hydroxide	1	1	1	1	2	1	2
Sodium hypochlorite to 6% available chloride	1	1	1	1	2	2	2
Sodium hypochlorite 7-15% available chloride	1	1	2	1	3	1	2
Sulphuric acid, conc. to 93% or 66° Be	2	2	1	2	4	4	4
Trichloroethane	4	4	2	1	1	2	4
Turpentine	4	4	2	1	1	2	4
Water	1	1	1	1	1	1	1

### **Code Key**

1	Satisfactory
2	Probably satisfactory but specific applications need testing
3	No information available
4	Unsatisfactory

### **Resin Key**

LDPE	Polyethylene low density
HDPE	Polyethylene high density
PP	Polypropylene
PVC	Polyvinyl chloride rigid
PET & PET-G	Polyester & co-polyester
SAN	Styrene acrylonitrile (SAN)
PS	Polystyrene

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