

CHEMICAL RESISTANCE CHART



G: Good	PVC	TPU
M: Moderate		
X: Not resistant		
- : Not Available		

Chemical	Resistance at 23°C	Resistance at 60°C	Resistance at 20°C
Acetaldehyde	X	X	X
Acetaldehyde, aq 40%	X	X	X
Acetic acid, 10%	G	G	M
Acetic acid, 20%	G	G	X
Acetic acid, 50%	M	X	X
Acetic acid, glacial	X	X	X
Acetic anhydride	X	X	X
Acetone	X	X	X
Acetonitrile	X	X	X
Acetylene	X	X	X
Acetophenone	X	X	-
Acetyl chloride	X	X	-
Acetylnitrile	X	X	-
Acrylonitrile	X	X	X
Acrylic acid	X	X	-
Adipic acid	G	M	M
Alcohol, allyl	M	X	X
Alcohol, amyl	X	X	X
Alcohol, benzyl	X	X	M
Alcohol, butyl (n-butanol)	G	X	X
Alcohol, diacetone	X	X	-
Alcohol, ethyl (ethanol)	G	X	X
Alcohol, hexyl (hexanol)	G	M	M
Alcohol, isopropyl (2-propanol)	G	X	X
Alcohol, methyl (methanol)	G	X	X
Alcohol, propyl (1-propanol)	G	M	M
Allyl chloride	X	X	X
Alums	G	G	G
Aluminum chloride	G	G	M
Aluminum fluoride	G	G	G
Aluminum hydroxide	G	G	M
Aluminum nitrate	G	G	M
Aluminum sulfate	G	G	M
Ammonia, gas	G	G	G
Ammonia, liquid	X	X	X
Ammonium salts	G	G	M
Ammonium fluoride, 10%	G	G	X
Ammonium fluoride, 25%	G	M	X
Amyl acetate	X	X	X
Amyl chloride	X	X	X
Aniline	X	X	X
Aniline chlorohydrate	X	X	X
Aniline hydrochloride	X	X	X
Anthraquinone	G	X	-
Antimony trichloride	G	G	G

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Anthraquinone sulfonic acid	G	G	X
Aqua regia	X	X	X
Arsenic acid, 80%	G	M	X
Aryl-sulfonic acid	G	X	X
Barium carbonate	G	G	G
Barium Chloride	G	G	G
Barium hydroxide	G	G	M
Barium nitrate	G	G	G
Benzaldehyde, 10%	X	X	X
Benzene (benzol)	X	X	X
Benzene sulfonic acid, 10%	G	G	X
Benzene sulfonic acid, > 10%	X	X	X
Benzoic acid	G	X	X
Benzyl acetate	X	X	-
Bleach, 5% active chlorine	G	G	M
Bleach, 12% active chlorine	G	G	X
Borax	G	G	G
Boric acid	G	M	M
Brine	G	G	M
Bromic acid	G	G	X
Bromine, liquid	X	X	X
Bromine, gas	X	X	X
Bromobenzene	X	X	X
Bromotoluene	X	X	-
Butadiene	X	X	G
Butane	G	G	M
Butynediol	G	X	-
Butyl acetate	X	X	X
Butyl acrylate	X	X	-
Butyl ether	X	X	-
Butyl phenol	X	X	X
Butyl stearate	G	X	M
Butyric acid	N	X	X
Cadmium Cyanide	G	G	-
Calcium salts	G	G	M
Calcium hypochlorite, 30%	G	G	X
Calcium hydroxide	G	G	M
Calcium Nitrate	G	G	G
Calcium Oxide	G	G	G
Calcium Sulfate	G	G	M
Carbon disulfide	X	X	M
Carbon dioxide	G	G	G
Carbon dioxide, aq	G	G	G
Carbon monoxide	G	G	G
Carbitol	G	X	X
Carbon tetrachloride	X	X	X
Carbonic Acid	G	G	G
Castor oil	G	G	G
Caustic potash, (potassium hydroxide), 50%	G	X	X
Caustic soda, (sodium hydroxide), < 40%	G	M	X
Cellosolve	G	X	G
Cellosolve acetate	X	X	-
Chloral hydrate	G	G	X
Chloramine, dilute	G	X	G
Chloric acid, 20%	G	M	X
Chlorine, gas, dry	M	X	X

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Chlorine, gas, wet	X	X	X
Chlorine water solution	G	M	X
Chloroacetic acid	X	X	X
Chloroacetyl Chloride	G	X	-
Chlorobenzene	X	X	X
Chlorobenzyl chloride	X	X	-
Chloroform	X	X	X
Chloropicrin	X	X	-
Chlorosulfonic acid	X	X	X
Chromic acid, 10%	G	X	X
Chromic acid, 30%	M	X	X
Chromic acid, 40%	M	X	X
Chromic acid, 50%	M	X	X
Cinnamon oil	X	X	-
Citric acid	G	M	M
Coconut oil	G	G	G
Copper acetate	G	X	X
Copper carbonate	G	G	-
Copper fluoride	G	M	X
Copper nitrate	G	M	X
Copper sulfate	G	G	M
Corn oil	G	G	-
Corn syrup	G	G	-
Cottonseed oil	G	G	G
Creosote	X	X	X
Cresol, 90%	X	X	X
Cresylic acid	M	X	X
Croton aldehyde	X	X	M
Crude oil	G	G	G
Cupric Salts, aq	G	G	-
Cyclohexane	X	X	-
Cyclohexanol	X	X	M
Cyclohexanone	X	X	X
Decahydronaphthalene	X	X	X
Dextrin	G	M	G
Dextrose	G	G	G
Dibutoxyethyl phthalate	X	X	-
Dibutyl phthalate	X	X	X
Dibutyl sebacate	M	X	X
Dichloroacetic acid	X	X	-
Dichlorobenzene	X	X	X
Dichloroethane	X	X	-
Dichloroethylene	X	X	X
Diesel fuels	G	G	G
Diethylamine	X	X	X
Diethyl ether	X	X	G
Diethyl malonate	X	X	-
Diethylene glycol	M	X	M
Diglycolic acid	G	M	X
Diisobutyl ketone	X	X	-
Dioxane -1,4	X	X	X
Dimethylamine	X	X	M
Dimethyl formamide	X	X	X
Dimethyl phthalate (DMP)	X	X	M
Disodium hydrogen ortho phosphate	G	G	-
Dimethyl sulfoxide (DMSO)	X	X	-

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Epichlorhydrin	X	X	-
Ethers	X	X	X
Ethyl acetate	X	X	X
Ethyl acrylate	X	X	X
Ethylbenzene	X	X	X
Ethyl benzoate	X	X	-
Ethyl chloride	X	X	X
Ethyl halides	X	X	-
Ethylene halides	X	X	-
Ethylene glycol	G	X	M
Ethylene oxide	X	X	X
Fatty acids	G	G	G
Ferric salts	G	G	G
Fluorides	G	M	-
Fluorine, dry gas	X	X	X
Fluorine, wet gas	X	X	X
Fluoboric acid	G	G	G
Fluosilicic acid, 50%	G	G	X
Formaldehyde	G	X	X
Formic acid	G	X	X
Freon - F11	G	G	X
Freon - F12	G	G	G
Freon - F113	M	M	G
Freon - F114			-
Freon - F21	X	X	-
Freon - F22	X	X	X
Fructose	G	G	G
Furfural	X	X	X
Furfuryl Alcohol	X	X	X
Gas, coal, manufactured	X	X	-
Gas, natural, methane	G	G	G
Gasoline	X	X	G
Gelatine	G	G	M
Glucose	G	G	G
Glycerine (glycerol)	G	G	G
Glycolic acid	G	G	X
Heptane	G	X	G
Hexane	G	X	G
Hexanol	G	M	M
Hydrobromic acid	G	X	X
Hydrochloric acid	G	M	X
Hydrofluoric acid, 10%	G	G	X
Hydrofluoric acid, 40%	M	X	X
Hydrofluoric acid, 60%	M	X	X
Hydrocyanic acid	G	G	-
Hydrogen	G	G	G
Hydrogen fluoride	X	X	X
Hydrogen peroxide, 50%	G	X	X
Hydrogen peroxide, 90%	X	X	X
Hydrogen sulfide, aq	G	G	X
Hydrogen sulfide gas, dry	G	G	X
Hydroquinone	G	G	X
Hydroxylamine sulfate	G	G	X
Hypochlorous acid	M	M	X
Iodine	X	X	X
Isobutanol	G	X	X

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Jet fuels, JP-4 and JP-5	M	M	M
Kerosene	M	M	G
Lactic acid, 25%	G	G	X
Lactic acid, 80%	G	X	X
Lauric acid	G	G	X
Lauryl acetate	G	G	-
Lauryl chloride	G	X	G
Lead salts	G	G	-
Linoleic acid	G	M	X
Linoleic oil	G	M	-
Linseed oil	G	M	G
Lithium salts	G	G	-
Magnesium salts	G	M	G
Maleic acid	G	M	X
Malic acid	G	G	X
Manganese chloride	G	M	-
Manganese sulfate	G	G	-
Mercuric salts	G	G	G
Mercury	G	G	G
Methane	G	M	M
Methoxyethyl oleate	X	X	-
Methyl acetate	X	X	X
Methyl amine	X	X	X
Methyl bromide	X	X	X
Methyl cellosolve	X	X	-
Methyl chloride	X	X	X
Methyl chloroform	X	X	-
Methyl ethyl ketone	X	X	X
Methyl isobutyl carbinol	X	X	-
Methyl isobutyl ketone	X	X	X
Methyl isopropyl ketone	X	X	X
Methyl methacrylate	G	X	-
Methyl sulfate	G	X	G
Methylene bromide	X	X	-
Methylene chloride	X	X	X
Methylene iodide	X	X	-
Mineral oil	M	X	G
Molasses	G	M	G
Monochloroacetic acid	G	M	-
Monochlorobenzene	X	X	-
Monoethanolamine	X	X	-
Motor oil	G	G	X
Naphtha	X	X	G
Naphthalene	X	X	G
Nickel acetate	G	X	M
Nickel salts	G	G	G
Nicotine	G	G	G
Nicotinic acid	G	G	X
Nitric acid, 10%	G	G	X
Nitric acid, 20%	G	X	X
Nitric acid, 50%	M	X	X
Nitric acid, 70%	X	X	X
Nitric acid, 100%	X	X	X
Nitrobenzene	X	X	X
Nitroglycerine	X	X	-
Nitrous oxide	G	X	G

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Nitroglycol	X	X	-
Oleic acid	G	G	X
Oleum	X	X	X
Oxalic acid	G	X	X
Oxygen, gas	G	G	G
Ozone, gas	X	X	G
Ozone, aq	G	M	G
Palmitic acid, 10%	G	G	G
Palmitic acid, 70%	G	X	X
Paraffin	G	M	G
Pentane	M	M	-
Peracetic acid	G	X	-
Perchloric acid, 15%	G	X	X
Perchloric acid, 70%	G	X	X
Perchloroethylene	X	X	X
Perphosphate	G	X	-
Phenol	X	X	X
Phenylhydrazine	X	X	-
Phosphoric anhydride	G	X	-
Phosphoric acid	G	G	X
Phosphorus, yellow	G	X	-
Phosphorus, red	G	X	-
Phosphorus pentoxide	G	X	-
Phosphorus trichloride	X	X	-
Phthalic acid	X	X	-
Picric acid	X	X	G
Potash	G	G	-
Potassium amyl xanthate	G	X	-
Potassium salts, aq	G	M	M
Potassium permanganate, 10%	G	M	M
Potassium permanganate, 25%	G	X	-
Propane	G	X	G
Propylene dichloride	X	X	X
Propylene Glycol, 25%	G	G	X
Propylene Glycol, 25 - 50%	M	M	X
Propylene Glycol, 50%	X	X	X
Propylene oxide	X	X	X
Pyridine	X	X	X
Salicylic acid	G	M	G
Salicylaldehyde	X	X	-
Selenic acid, aq.	G	G	-
Silicic acid	G	G	G
Silicone oil	G	X	G
Silver salts	G	M	G
Soap solutions	G	M	M
Sodium salts, aq	G	G	M
Stannic chloride	G	G	G
Stannous chloride	G	G	G
Stearic acid	G	G	M
Stoddard solvents	X	X	M
Succinic acid	G	G	-
Sulfamic acid	X	X	-
Sulfur	G	G	-
Sulfur dioxide, gas, dry	G	X	-
Sulfur dioxide, gas, wet	G	X	-
Sulfur trioxide, gas, dry	G	G	-

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Sulfur trioxide	X	X	-
Sulfuric acid, up to 80%	G	G	X
Sulfuric acid, 90 to 93%	G	X	X
Sulfuric acid, 94 to 100%	X	X	X
Sulfurous acid	G	G	X
Tall Oil	G	M	-
Tannic acid	G	G	M
Tar	X	X	-
Tartaric acid	G	G	M
Terpineol	M	M	-
Tetrachloroethane	X	X	G
Tetraethyl lead	G	X	M
Tetrahydrofuran	X	X	M
Tetralin	X	X	-
Tetra sodium	G	G	-
Thionyl chloride	X	X	X
Thread cutting oils	G	X	-
Titanium tetrachloride	X	X	X
Toluene	X	X	X
Transformer oil	G	G	G
Tributyl phosphate	X	X	X
Tributyl citrate	X	X	-
Trichloroacetic acid	M	X	X
Trichloroethylene	X	X	X
Triethanolamine	G	X	X
Triethylamine	G	M	-
Trisodium phosphate	G	X	M
Turpentine	M	X	G
Urea	G	X	G
Urine	G	G	G
Vaseline	X	X	-
Vinyl acetate	X	X	X
Water	G	G	M
Water, distilled	G	G	M
Xylene	X	X	X
Zinc salts	G	M	G

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