

Introduction

Among many of the positive attributes of polypropylene, it is probably best known for its resistance to highly aggressive chemicals. While polypropylene is highly resistant to many chemicals at room temperatures, its chemical resistance decreases with increased temperatures. This technical note provides a basic resistance rating for many chemicals. This table is meant to serve as a general guide and should not be used to guarantee performance since specific site and application conditions may cause specific concerns which cannot be addressed in a general table.

This chart rates the chemical resistance of polypropylene resin according to the following code: Ratings:

A = Excellent

B = Good, Minor Effect, slight corrosion or discoloration

C = Fair, Moderate Effect, not recommended for continuous use. Softening, loss of strength, or swelling may occur.

D = Severe Effect, not recommend for ANY use.

N/A = Information not available

Explanation of Footnotes:

1. means Satisfactory to 72°F (22°C)
2. means Satisfactory to 120°F (48°C)

Chemical	Compatibility
Acetaldehyde	A1-Excellent
Acetamide	A1-Excellent
Acetate Solvent	B1-Good
Acetic Acid	B-Good
Acetic Acid 20%	A-Excellent
Acetic Acid 80%	A-Excellent
Acetic Acid, Glacial	A1-Excellent
Acetic Anhydride	B1-Good
Acetone	A-Excellent
Acetyl Bromide	N/A
Acetyl Chloride (dry)	D-Severe Effect
Acetylene	A1-Excellent
Acrylonitrile	A1-Excellent
Adipic Acid	B2-Good
Alcohols: Amyl	B1-Good
Alcohols: Benzyl	A-Excellent
Alcohols: Butyl	A-Excellent

Chemical	Compatibility
Alcohols: Diacetone	B2-Good
Alcohols: Ethyl	A-Excellent
Alcohols: Hexyl	N/A
Alcohols: Isobutyl	A1-Excellent
Alcohols: Isopropyl	A2-Excellent
Alcohols: Methyl	A2-Excellent
Alcohols: Octyl	N/A
Alcohols: Propyl	A-Excellent
Aluminum Chloride	A-Excellent
Aluminum Chloride 20%	A-Excellent
Aluminum Fluoride	A-Excellent
Aluminum Hydroxide	A-Excellent
Aluminum Nitrate	A2-Excellent
Aluminum Potassium Sulfate 10%	A-Excellent
Aluminum Potassium Sulfate 100%	A-Excellent
Aluminum Sulfate	A-Excellent

Chemical	Compatibility
Alums	A-Excellent
Amines	B2-Good
Ammonia 10%	A2-Excellent
Ammonia Nitrate	A-Excellent
Ammonia, anhydrous	A-Excellent
Ammonia, liquid	A2-Excellent
Ammonium Acetate	A-Excellent
Ammonium Bifluoride	A-Excellent
Ammonium Carbonate	A-Excellent
Ammonium Caseinate	N/A
Ammonium Chloride	A-Excellent
Ammonium Hydroxide	A-Excellent
Ammonium Nitrate	A-Excellent
Ammonium Oxalate	A-Excellent
Ammonium Persulfate	A-Excellent
Ammonium Phosphate, Dibasic	A-Excellent

Chemical	Compatibility
Ammonium Phosphate, Monobasic	A-Excellent
Ammonium Phosphate, Tribasic	A-Excellent
Ammonium Sulfate	A-Excellent
Ammonium Sulfite	A2-Excellent
Ammonium Thiosulfate	N/A
Amyl Acetate	B1-Good
Amyl Alcohol	B1-Good
Amyl Chloride	D-Severe Effect
Aniline	A1-Excellent
Aniline Hydrochloride	D-Severe Effect
Antifreeze	D-Severe Effect
Antimony Trichloride	A-Excellent
Aqua Regia (80% HCl, 20% HNO3)	B1-Good
Arochlor 1248	D-Severe Effect
Aromatic Hydrocarbons	D-Severe Effect
Arsenic Acid	A-Excellent



Chemical	Compatibility
Arsenic Salts	N/A
Asphalt	B1-Good
Barium Carbonate	A-Excellent
Barium Chloride	A-Excellent
Barium Cyanide	D-Severe Effect
Barium Hydroxide	B-Good
Barium Nitrate	A-Excellent
Barium Sulfate	B1-Good
Barium Sulfide	B-Good
Beer	A1-Excellent
Beet Sugar Liquids	A1-Excellent
Benzaldehyde	D-Severe Effect
Benzene	D-Severe Effect
Benzene Sulfonic Acid	D-Severe Effect
Benzoic Acid	B1-Good
Benzol	B-Good
Benzonitrile	N/A
Benzyl Chloride	C1-Fair
Bleaching Liquors	A1-Excellent
Borax (Sodium Borate)	B-Good
Boric Acid	A-Excellent
Brewery Slop	N/A
Bromine	D-Severe Effect
Butadiene	C-Fair
Butane	A1-Excellent
Butanol (Butyl Alcohol)	A1-Excellent
Butter	N/A
Buttermilk	A1-Excellent
Butyl Amine	B1-Good

Chemical	Compatibility
Butyl Ether	D-Severe Effect
Butyl Phthalate	B2-Good
Butylacetate	B1-Good
Butylene	N/A
Butyric Acid	B1-Good
Calcium Bisulfate	N/A
Calcium Bisulfide	A-Excellent
Calcium Bisulfite	A-Excellent
Calcium Carbonate	A-Excellent
Calcium Chlorate	N/A
Calcium Chloride	A2-Excellent
Calcium Hydroxide	A2-Excellent
Calcium Hypochlorite	A1-Excellent
Calcium Nitrate	A2-Excellent
Calcium Oxide	A-Excellent
Calcium Sulfate	A-Excellent
Calgon	A-Excellent
Cane Juice	C1-Fair
Carbolic Acid (Phenol)	B-Good
Carbon Bisulfide	D-Severe Effect
Carbon Dioxide (dry)	A2-Excellent
Carbon Dioxide (wet)	A2-Excellent
Carbon Disulfide	D-Severe Effect
Carbon Monoxide	A-Excellent
Carbon Tetrachloride	D-Severe Effect
Carbon Tetrachloride (dry)	D-Severe Effect
Carbon Tetrachloride (wet)	D-Severe Effect
Carbonated Water	B-Good
Carbonic Acid	A-Excellent

Chemical	Compatibility
Catsup	A-Excellent
Chloric Acid	N/A
Chlorinated Glue	N/A
Chlorine (dry)	D-Severe Effect
Chlorine Water	D-Severe Effect
Chlorine, Anhydrous Liquid	D-Severe Effect
Chloroacetic Acid	C1-Fair
Chlorobenzene (Mono)	C1-Fair
Chlorobromomethane	A-Excellent
Chloroform	C1-Fair
Chlorosulfonic Acid	D-Severe Effect
Chocolate Syrup	A2-Excellent
Chromic Acid 10%	D-Severe Effect
Chromic Acid 30%	D-Severe Effect
Chromic Acid 5%	D-Severe Effect
Chromic Acid 50%	D-Severe Effect
Chromium Salts	N/A
Cider	A-Excellent
Citric Acid	A-Excellent
Citric Oils	A-Excellent
Clorox (Bleach)	A-Excellent
Coffee	A-Excellent
Copper Chloride	A-Excellent
Copper Cyanide	A-Excellent
Copper Fluoborate	N/A
Copper Nitrate	A-Excellent
Copper Sulfate >5%	A-Excellent
Copper Sulfate 5%	A-Excellent
Cream	A-Excellent

Chemical	Compatibility
Cresols	D-Severe Effect
Cresylic Acid	A1-Excellent
Cupric Acid	A2-Excellent
Cyanic Acid	N/A
Cyclohexane	D-Severe Effect
Cyclohexanone	D-Severe Effect
Detergents	A-Excellent
Diacetone Alcohol	A1-Excellent
Dichlorobenzene	C1-Fair
Dichloroethane	D-Severe Effect
Diesel Fuel	A1-Excellent
Diethyl Ether	A1-Excellent
Diethylamine	A1-Excellent
Diethylene Glycol	A2-Excellent
Dimethyl Aniline	D-Severe Effect
Dimethyl Formamide	A-Excellent
Diphenyl	D-Severe Effect
Diphenyl Oxide	D-Severe Effect
Dyes	N/A
Epsom Salts (Magnesium Sulfate)	A-Excellent
Ethane	D-Severe Effect
Ethanol	A-Excellent
Ethanolamine	D-Severe Effect
Ether	D-Severe Effect
Ethyl Acetate	A1-Excellent
Ethyl Benzoate	B1-Good
Ethyl Chloride	D-Severe Effect
Ethyl Ether	D-Severe Effect
Ethyl Sulfate	N/A



Chemical	Compatibility
Ethylene Bromide	D-Severe Effect
Ethylene Chloride	C1-Fair
Ethylene Chlorohydrin	D-Severe Effect
Ethylene Diamine	N/A
Ethylene Dichloride	D-Severe Effect
Ethylene Glycol	A-Excellent
Ethylene Oxide	D-Severe Effect
Fatty Acids	A-Excellent
Ferric Chloride	A-Excellent
Ferric Nitrate	A-Excellent
Ferric Sulfate	A-Excellent
Ferrous Chloride	A-Excellent
Ferrous Sulfate	A-Excellent
Fluoboric Acid	A-Excellent
Fluorine	D-Severe Effect
Fluosilicic Acid	A-Excellent
Formaldehyde 100%	C-Fair
Formaldehyde 40%	A-Excellent
Formic Acid	A1-Excellent
Freon 113	D-Severe Effect
Freon 12	A2-Excellent
Freon 22	B-Good
Freon TF	D-Severe Effect
Freonr 11	A-Excellent
Fruit Juice	B-Good
Fuel Oils	A-Excellent
Furan Resin	D-Severe Effect
Furfural	D-Severe Effect
Gallic Acid	A-Excellent

Chemical	Compatibility
Gasoline (high-aromatic)	A-Excellent
Gasoline, leaded, ref.	B-Good
Gasoline, unleaded	C1-Fair
Gelatin	A-Excellent
Glucose	A-Excellent
Glue, P.V.A.	N/A
Glycerin	A-Excellent
Glycolic Acid	A-Excellent
Gold Monocyanide	N/A
Grape Juice	N/A
Grease	N/A
Heptane	C2-Fair
Hexane	B1-Good
Honey	A-Excellent
Hydraulic Oil (Petro)	D-Severe Effect
Hydraulic Oil (Synthetic)	D-Severe Effect
Hydrazine	C-Fair
Hydrobromic Acid 100%	C1-Fair
Hydrobromic Acid 20%	A2-Excellent
Hydrochloric Acid 100%	B1-Good
Hydrochloric Acid 20%	B2-Good
Hydrochloric Acid 37%	C-Fair
Hydrochloric Acid, Dry Gas	B-Good
Hydrocyanic Acid	A-Excellent
Hydrocyanic Acid (Gas 10%)	A-Excellent
Hydrofluoric Acid 100%	C1-Fair
Hydrofluoric Acid 20%	A2-Excellent
Hydrofluoric Acid 50%	A2-Excellent
Hydrofluoric Acid 75%	C1-Fair

Chemical	Compatibility
Hydrofluosilicic Acid 100%	A-Excellent
Hydrofluosilicic Acid 20%	A-Excellent
Hydrogen Gas	A-Excellent
Hydrogen Peroxide 10%	A-Excellent
Hydrogen Peroxide 100%	B1-Good
Hydrogen Peroxide 30%	B1-Good
Hydrogen Peroxide 50%	B1-Good
Hydrogen Sulfide (aqua)	A1-Excellent
Hydrogen Sulfide (dry)	A1-Excellent
Hydroquinone	A-Excellent
Hydroxyacetic Acid 70%	N/A
Ink	N/A
Iodine	C-Fair
Iodine (in alcohol)	N/A
Iodoform	N/A
Isooctane	A2-Excellent
Isopropyl Acetate	B1-Good
Isopropyl Ether	B-Good
Isotane	D-Severe Effect
Jet Fuel (JP3, JP4, JP5)	A1-Excellent
Kerosene	B-Good
Ketones	C-Fair
Lacquer Thinners	D-Severe Effect
Lacquers	D-Severe Effect
Lactic Acid	B-Good
Lard	B1-Good
Latex	A2-Excellent
Lead Acetate	A1-Excellent
Lead Nitrate	A2-Excellent

Chemical	Compatibility
Lead Sulfamate	A2-Excellent
Ligroin	A2-Excellent
Lime	N/A
Linoleic Acid	B1-Good
Lithium Chloride	A2-Excellent
Lithium Hydroxide	N/A
Lubricants	A1-Excellent
Lye: Ca(OH)2 Calcium Hydroxide	A2-Excellent
Lye: KOH Potassium Hydroxide	A-Excellent
Lye: NaOH Sodium Hydroxide	A-Excellent
Magnesium Bisulfate	A2-Excellent
Magnesium Carbonate	A-Excellent
Magnesium Chloride	A2-Excellent
Magnesium Hydroxide	A-Excellent
Magnesium Nitrate	A-Excellent
Magnesium Oxide	N/A
Magnesium Sulfate (Epsom Salts)	A-Excellent
Maleic Acid	A-Excellent
Maleic Anhydride	D-Severe Effect
Malic Acid	A1-Excellent
Manganese Sulfate	N/A
Mash	N/A
Mayonnaise	N/A
Melamine	A-Excellent
Mercuric Chloride (dilute)	B-Good
Mercuric Cyanide	B-Good
Mercurous Nitrate	A-Excellent
Mercury	B-Good
Methane	A-Excellent



Chemical	Compatibility
Methanol (Methyl Alcohol)	A2-Excellent
Methyl Acetate	D-Severe Effect
Methyl Acetone	N/A
Methyl Acrylate	D-Severe Effect
Methyl Alcohol 10%	A2-Excellent
Methyl Bromide	C-Fair
Methyl Butyl Ketone	D-Severe Effect
Methyl Cellosolve	B-Good
Methyl Chloride	D-Severe Effect
Methyl Dichloride	D-Severe Effect
Methyl Ethyl Ketone	B-Good
Methyl Ethyl Ketone Peroxide	N/A
Methyl Isobutyl Ketone	A-Excellent
Methyl Isopropyl Ketone	N/A
Methyl Methacrylate	D-Severe Effect
Methylamine	A2-Excellent
Methylene Chloride	B1-Good
Milk	B-Good
Mineral Spirits	B-Good
Molasses	B-Good
Monochloroacetic acid	N/A
Monoethanolamine	B-Good
Morpholine	B2-Good
Motor oil	A1-Excellent
Mustard	A-Excellent
Naphtha	B-Good
Naphthalene	B-Good
Natural Gas	A-Excellent
Nickel Chloride	A-Excellent

Chemical	Compatibility
Nickel Nitrate	A2-Excellent
Nickel Sulfate	A-Excellent
Nitrating Acid (<15% HNO3)	C-Fair
Nitrating Acid (>15% H2SO4)	C-Fair
Nitrating Acid (S1% Acid)	C-Fair
Nitrating Acid (S15% H2SO4)	C-Fair
Nitric Acid (20%)	A2-Excellent
Nitric Acid (50%)	B-Good
Nitric Acid (5-10%)	A-Excellent
Nitric Acid (Concentrated)	D-Severe Effect
Nitrobenzene	B1-Good
Nitrogen Fertilizer	N/A
Nitromethane	B2-Good
Nitrous Acid	A-Excellent
Nitrous Oxide	D-Severe Effect
Oils: Aniline	A-Excellent
Oils: Anise	N/A
Oils: Bay	N/A
Oils: Bone	A-Excellent
Oils: Castor	A-Excellent
Oils: Cinnamon	D-Severe Effect
Oils: Citric	A-Excellent
Oils: Clove	N/A
Oils: Coconut	A1-Excellent
Oils: Cod Liver	A1-Excellent
Oils: Corn	A2-Excellent
Oils: Cottonseed	A-Excellent
Oils: Creosote	C-Fair
Oils: Diesel Fuel (20, 30, 40, 50)	A1-Excellent

Chemical	Compatibility
Oils: Fuel (1, 2, 3, 5A, 5B, 6)	B-Good
Oils: Ginger	N/A
Oils: Hydraulic Oil (Petro)	D-Severe Effect
Oils: Hydraulic Oil (Synthetic)	D-Severe Effect
Oils: Lemon	N/A
Oils: Linseed	A-Excellent
Oils: Mineral	A-Excellent
Oils: Olive	A-Excellent
Oils: Orange	A-Excellent
Oils: Palm	N/A
Oils: Peanut	D-Severe Effect
Oils: Peppermint	N/A
Oils: Pine	B-Good
Oils: Rapeseed	D-Severe Effect
Oils: Rosin	A2-Excellent
Oils: Sesame Seed	A-Excellent
Oils: Silicone	A-Excellent
Oils: Soybean	A1-Excellent
Oils: Sperm (whale)	N/A
Oils: Tanning	N/A
Oils: Transformer	B-Good
Oils: Turbine	B1-Good
Oleic Acid	B1-Good
Oleum 100%	D-Severe Effect
Oleum 25%	D-Severe Effect
Oxalic Acid (cold)	A2-Excellent
Ozone	B-Good
Palmitic Acid	B1-Good
Paraffin	A1-Excellent

Chemical	Compatibility
Pentane	D-Severe Effect
Perchloric Acid	C-Fair
Perchloroethylene	D-Severe Effect
Petrolatum	D-Severe Effect
Petroleum	B1-Good
Phenol (10%)	B1-Good
Phenol (Carbolic Acid)	B-Good
Phosphoric Acid (>40%)	A2-Excellent
Phosphoric Acid (crude)	B2-Good
Phosphoric Acid (molten)	D-Severe Effect
Phosphoric Acid (S40%)	A2-Excellent
Phosphoric Acid Anhydride	A-Excellent
Phosphorus	A-Excellent
Phosphorus Trichloride	N/A
Photographic Developer	A-Excellent
Photographic Solutions	A2-Excellent
Phthalic Acid	A-Excellent
Phthalic Anhydride	D-Severe Effect
Picric Acid	B1-Good
Plating Solutions, Antimony Plating 130°F	A-Excellent
Plating Solutions, Arsenic Plating 110°F	A-Excellent
Plating Solutions (Brass): High-Speed Brass Bath 110°F	A-Excellent
Plating Solutions (Brass): Regular Brass Bath 100°F	A-Excellent
Plating Solutions (Bronze): Cu-Cd Bronze Bath R.T.	A-Excellent
Plating Solutions (Bronze): Cu-Sn Bronze Bath 160°F	A-Excellent
Plating Solutions (Bronze): Cu-Zn Bronze Bath 100°F	A-Excellent
Plating Solutions (Cadmium): Cyanide Bath 90°F	A-Excellent



Chemical	Compatibility
Plating Solutions (Cadmium): Fluoborate Bath 100°F	A-Excellent
Plating Solutions, (Chromium): Barrel Chrome Bath 95°F	A-Excellent
Plating Solutions, (Chromium): Black Chrome Bath 115°F	A-Excellent
Plating Solutions, (Chromium): Chromic-Sulfuric Bath 130°F	A-Excellent
Plating Solutions, (Chromium): Fluoride Bath 130°F	A-Excellent
Plating Solutions, (Chromium): Fluosilicate Bath 95°F	D-Severe Effect
Plating Solutions (Copper) (Acid): Copper Fluoborate Bath 120°F	A-Excellent
Plating Solutions (Copper) (Acid): Copper Sulfate Bath R.T.	A-Excellent
Plating Solutions (Copper) (Cyanide): Copper Strike Bath 120°F	A-Excellent
Plating Solutions (Copper) (Cyanide): High-Speed Bath 180°F	A-Excellent
Plating Solutions (Copper) (Cyanide): Rochelle Salt Bath 150°F	A-Excellent
Plating Solutions (Copper) (Misc): Copper (Electroless)	A-Excellent
Plating Solutions (Copper) (Misc): Copper Pyrophosphate	A-Excellent
Plating Solutions (Gold): Acid 75°F	A-Excellent
Plating Solutions (Gold): Cyanide 150°F	A-Excellent
Plating Solutions (Gold): Neutral 75°F	A-Excellent
Plating Solutions, Iridium Sulfamate Plating R.T.	A-Excellent
Plating Solutions (Iron): Ferrous Am Sulfate Bath 150°F	A-Excellent
Plating Solutions (Iron): Ferrous Chloride Bath 190°F	C-Fair
Plating Solutions (Iron): Ferrous Sulfate Bath 150°F	A-Excellent

Chemical	Compatibility
Plating Solutions (Iron): Fluoborate Bath 145°F	A-Excellent
Plating Solutions (Iron): Sulfamate 140°F	A-Excellent
Plating Solutions (Iron): Sulfate-Chloride Bath 160°F	A-Excellent
Plating Solutions, Lead Fluoborate Plating	A-Excellent
Plating Solutions, (Nickel): Electroless 200°F	D-Severe Effect
Plating Solutions, (Nickel): Fluoborate 100-170°F	A-Excellent
Plating Solutions, (Nickel): High-Chloride 130-160°F	A-Excellent
Plating Solutions, (Nickel): Sulfamate 100-140°F	A-Excellent
Plating Solutions, (Nickel): Watts Type 115-160°F	A-Excellent
Plating Solutions (Rhodium) 120°F	A-Excellent
Plating Solutions, (Silver) 80-120°F	A-Excellent
Plating Solutions, Tin-Fluoborate Plating 100°F	A-Excellent
Plating Solutions, Tin-Lead Plating 100°F	A-Excellent
Plating Solutions (Zinc): Acid Chloride 140°F	A-Excellent
Plating Solutions (Zinc): Acid Fluoborate Bath R.T.	A-Excellent
Plating Solutions (Zinc): Acid Sulfate Bath 150°F	A-Excellent
Plating Solutions (Zinc): Alkaline Cyanide Bath R.T.	A-Excellent
Potash (Potassium Carbonate)	A-Excellent
Potassium Bicarbonate	A-Excellent
Potassium Bromide	A-Excellent
Potassium Chlorate	A-Excellent
Potassium Chloride	A-Excellent
Potassium Chromate	A-Excellent
Potassium Cyanide Solutions	A-Excellent

Chemical	Compatibility
Potassium Dichromate	A-Excellent
Potassium Ferricyanide	A2-Excellent
Potassium Ferrocyanide	A-Excellent
Potassium Hydroxide (Caustic Potash)	A-Excellent
Potassium Hypochlorite	N/A
Potassium Iodide	A2-Excellent
Potassium Nitrate	A-Excellent
Potassium Oxalate	N/A
Potassium Permanganate	A1-Excellent
Potassium Sulfate	A-Excellent
Potassium Sulfide	A-Excellent
Propane (liquefied)	A-Excellent
Propylene	N/A
Propylene Glycol	A2-Excellent
Pyridine	A2-Excellent
Pyrogalllic Acid	A-Excellent
Resorcinol	A2-Excellent
Rosins	A2-Excellent
Rum	A-Excellent
Rust Inhibitors	A-Excellent
Salad Dressings	A-Excellent
Salicylic Acid	A1-Excellent
Salt Brine (NaCl saturated)	A-Excellent
Sea Water	A-Excellent
Shellac (Bleached)	A-Excellent
Shellac (Orange)	A-Excellent
Silicone	A-Excellent
Silver Bromide	N/A
Silver Nitrate	A1-Excellent

Chemical	Compatibility
Soap Solutions	A-Excellent
Soda Ash (see Sodium Carbonate)	A-Excellent
Sodium Acetate	A-Excellent
Sodium Aluminate	N/A
Sodium Benzoate	A2-Excellent
Sodium Bicarbonate	A-Excellent
Sodium Bisulfate	A-Excellent
Sodium Bisulfite	A-Excellent
Sodium Borate (Borax)	A2-Excellent
Sodium Bromide	N/A
Sodium Carbonate	A-Excellent
Sodium Chlorate	A-Excellent
Sodium Chloride	A-Excellent
Sodium Chromate	N/A
Sodium Cyanide	A-Excellent
Sodium Ferrocyanide	A-Excellent
Sodium Fluoride	A-Excellent
Sodium Hydrosulfite	N/A
Sodium Hydroxide (20%)	A-Excellent
Sodium Hydroxide (50%)	A-Excellent
Sodium Hydroxide (80%)	A-Excellent
Sodium Hypochlorite (<20%)	A-Excellent
Sodium Hypochlorite (100%)	B-Good
Sodium Hyposulfate	N/A
Sodium Metaphosphate	A1-Excellent
Sodium Metasilicate	A-Excellent
Sodium Nitrate	A-Excellent
Sodium Perborate	A-Excellent
Sodium Peroxide	B-Good



Chemical	Compatibility	Chemical	Compatibility	Chemical	Compatibility	Chemical	Compatibility
Sodium Polyphosphate	A-Excellent	Sulfate (Liquors)	A-Excellent	Tartaric Acid	A-Excellent	Urine	A-Excellent
Sodium Silicate	A-Excellent	Sulfur Chloride	C1-Fair	Tetrachloroethane	C-Fair	Varnish	A-Excellent
Sodium Sulfate	A-Excellent	Sulfur Dioxide	A1-Excellent	Tetrachloroethylene	D-Severe Effect	Vegetable Juice	N/A
Sodium Sulfide	A-Excellent	Sulfur Dioxide (dry)	A1-Excellent	Tetrahydrofuran	C2-Fair	Vinegar	A-Excellent
Sodium Sulfite	A2-Excellent	Sulfur Hexafluoride	N/A	Tin Salts	A-Excellent	Vinyl Acetate	B1-Good
Sodium Tetraborate	N/A	Sulfur Trioxide	C-Fair	Toluene (Toluol)	C1-Fair	Vinyl Chloride	N/A
Sodium Thiosulfate (hypo)	A2-Excellent	Sulfur Trioxide (dry)	D-Severe Effect	Tomato Juice	A-Excellent	Water, Acid, Mine	A-Excellent
Sorghum	N/A	Sulfuric Acid (<10%)	A2-Excellent	Trichloroacetic Acid	A-Excellent	Water, Deionized	A2-Excellent
Soy Sauce	N/A	Sulfuric Acid (10-75%)	A1-Excellent	Trichloroethane	C-Fair	Water, Distilled	A-Excellent
Stannic Chloride	A-Excellent	Sulfuric Acid (75-100%)	C1-Fair	Trichloroethylene	C1-Fair	Water, Fresh	A-Excellent
Stannic Fluoborate	N/A	Sulfuric Acid (cold concentrated)	A2-Excellent	Trichloropropane	N/A	Water, Salt	A-Excellent
Stannous Chloride	A-Excellent	Sulfuric Acid (hot concentrated)	D-Severe Effect	Tricresylphosphate	A1-Excellent	Weed Killers	N/A
Starch	A2-Excellent	Sulfurous Acid	A-Excellent	Triethylamine	D-Severe Effect	Whey	N/A
Stearic Acid	A2-Excellent	Sulfuryl Chloride	N/A	Trisodium Phosphate	A-Excellent	Whiskey & Wines	A-Excellent
Stoddard Solvent	C-Fair	Tallow	A2-Excellent	Turpentine	D-Severe Effect	White Liquor (Pulp Mill)	A1-Excellent
Styrene	N/A	Tannic Acid	A-Excellent	Urea	A-Excellent	White Water (Paper Mill)	A-Excellent
Sugar (Liquids)	A-Excellent	Tanning Liquors	A1-Excellent	Uric Acid	N/A	Xylene	B-Good

Source: The test results indicated in this table are based on data provided by CP Lab Safety's chart, [Polypropylene Chemical Compatibility Chart](#). Please note that these charts are for general reference only. We have aggregated this data from dozens of sources and any single piece of data cannot be guaranteed. Additionally, many factors affect the chemical resistance of a given plastic product including the concentration/purity of the chemical, working temperature, wall thickness and condition, etc. It is your responsibility to test a product and chemical together ensuring computability under your unique circumstances. Ratings of chemical behavior listed in this chart apply at a 48-hr exposure period. We have no knowledge of possible effects beyond this period. We do not warrant (neither express nor implied) that the information in this chart is accurate or complete or that any material is suitable for any purpose. Anyone who uses this information assumes all risk to any results associated with its use.