



## Chemical Compatibility for EPDM Seals and Gaskets for Plastic Pipe Systems

Note that the effect of any chemical on EPDM may be dependent on factors such as temperature, pressure, concentrations, abrasiveness etc.

Acetaldehyde	Excellent
Acetamide	Excellent
Acetate Solvent	Excellent
Acetic Acid	Excellent
Acetic Acid 20%	Excellent
Acetic Acid 80%	Excellent
Acetic Acid, Glacial	Good
Acetic Anhydride	Good
Acetone	Excellent
Acetyl Bromide	No Data
Acetyl Chloride (dry)	Not Recommended
Acetylene	Excellent
Acrylonitrile	Not Recommended
Adipic Acid	Excellent up to 48oC
Alcohols: Amyl	Excellent
Alcohols: Benzyl	Good
Alcohols: Butyl	Excellent up to 48oC
Alcohols: Diacetone	Excellent
Alcohols: Ethyl	Excellent
Alcohols: Hexyl	Poor
Alcohols: Isobutyl	Excellent
Alcohols: Isopropyl	Excellent
Alcohols: Methyl	Excellent
Alcohols: Octyl	Excellent
Alcohols: Propyl	Excellent
Aluminum Chloride	Excellent
Aluminum Chloride 20%	Excellent
Aluminum Fluoride	Excellent
Aluminum Hydroxide	Excellent
Aluminum Nitrate	Excellent up to 48oC
Aluminum Potassium Sulfate 10%	Excellent
Aluminum Potassium Sulfate 100%	Excellent
Aluminum Sulfate	Excellent
Alums	Excellent up to 22oC



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Amines	Good
Ammonia 10%	Excellent
Ammonia Nitrate	Excellent
Ammonia, anhydrous	Excellent
Ammonia, liquid	Excellent
Ammonium Acetate	Excellent
Ammonium Bifluoride	Excellent up to 48oC
Ammonium Carbonate	Excellent
Ammonium Caseinate	No Data
Ammonium Chloride	Excellent
Ammonium Hydroxide	Excellent
Ammonium Nitrate	Excellent
Ammonium Oxalate	Excellent
Ammonium Persulfate	Good
Ammonium Phosphate, Dibasic	Excellent
Ammonium Phosphate, Monobasic	Excellent
Ammonium Phosphate, Tribasic	Excellent
Ammonium Sulfate	Excellent
Ammonium Sulfite	Excellent up to 22oC
Ammonium Thiosulfate	Excellent up to 22oC
Amyl Acetate	Excellent
Amyl Alcohol	Excellent
Amyl Chloride	Not Recommended
Aniline	Good
Aniline Hydrochloride	Good
Antifreeze	Excellent
Antimony Trichloride	Good up to 22oC
Aqua Regia (80% HCl, 20% HNO3)	Poor
Arochlor 1248	Good
Aromatic Hydrocarbons	Not Recommended
Arsenic Acid	Excellent up to 48oC
Arsenic Salts	No Data
Asphalt	Not Recommended
Barium Carbonate	Excellent
Barium Chloride	Excellent
Barium Cyanide	Excellent
Barium Hydroxide	Excellent
Barium Nitrate	Excellent
Barium Sulfate	Excellent
Barium Sulfide	Excellent



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Beer	Excellent
Beet Sugar Liquids	Excellent
Benzaldehyde	Excellent
Benzene	Not Recommended
Benzene Sulfonic Acid	Not Recommended
Benzoic Acid	Not Recommended
Benzol	Not Recommended
Benzonitrile	No Data
Benzyl Chloride	Not Recommended
Bleaching Liquors	Excellent
Borax (Sodium Borate)	Excellent
Boric Acid	Excellent
Brewery Slop	No Data
Bromine	Not Recommended
Butadiene	Poor
Butane	Not Recommended
Butanol (Butyl Alcohol)	Excellent up to 48oC
Butter	Excellent
Buttermilk	Excellent up to 22oC
Butyl Amine	No Data
Butyl Ether	Not Recommended
Butyl Phthalate	Good up to 48oC
Butylacetate	Good
Butylene	Not Recommended
Butyric Acid	Good
Calcium Bisulfate	Excellent
Calcium Bisulfide	Poor
Calcium Bisulfite	Not Recommended
Calcium Carbonate	Excellent
Calcium Chlorate	Excellent
Calcium Chloride	Excellent
Calcium Hydroxide	Excellent
Calcium Hypochlorite	Good up to 22oC
Calcium Nitrate	Excellent up to 48oC
Calcium Oxide	Excellent
Calcium Sulfate	Excellent
Calgon	Excellent
Cane Juice	Excellent
Carbolic Acid (Phenol)	Good
Carbon Bisulfide	Not Recommended



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Carbon Dioxide (dry)	Good
Carbon Dioxide (wet)	Good
Carbon Disulfide	Not Recommended
Carbon Monoxide	Excellent
Carbon Tetrachloride	Not Recommended
Carbon Tetrachloride (dry)	Good up to 22oC
Carbon Tetrachloride (wet)	Not Recommended
Carbonated Water	No Data
Carbonic Acid	Good
Catsup	Excellent
Chloric Acid	No Data
Chlorinated Glue	Good
Chlorine (dry)	Excellent
Chlorine Water	Poor
Chlorine, Anhydrous Liquid	Good
Chloroacetic Acid	Good
Chlorobenzene (Mono)	Not Recommended
Chlorobromomethane	Good
Chloroform	Not Recommended
Chlorosulfonic Acid	Not Recommended
Chocolate Syrup	Excellent
Chromic Acid 10%	Poor
Chromic Acid 30%	Good
Chromic Acid 5%	Excellent
Chromic Acid 50%	Good
Chromium Salts	No Data
Cider	Excellent
Citric Acid	Excellent
Citric Oils	Good
Cloroxr (Bleach)	Good
Coffee	Excellent
Copper Chloride	Excellent
Copper Cyanide	Excellent
Copper Fluoborate	No Data
Copper Nitrate	No Data
Copper Sulfate >5%	Excellent
Copper Sulfate 5%	Excellent
Cream	No Data
Cresols	Not Recommended
Cresylic Acid	Not Recommended



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Cupric Acid	Excellent up to 48oC
Cyanic Acid	No Data
Cyclohexane	Not Recommended
Cyclohexanone	Good
Detergents	Excellent
Diacetone Alcohol	Excellent
Dichlorobenzene	Not Recommended
Dichloroethane	No Data
Diesel Fuel	Not Recommended
Diethyl Ether	Not Recommended
Diethylamine	Good
Diethylene Glycol	Excellent up to 48oC
Dimethyl Aniline	Good up to 48oC
Dimethyl Formamide	Good
Diphenyl	Not Recommended
Diphenyl Oxide	Not Recommended
Dyes	No Data
Epsom Salts (Magnesium Sulfate)	Excellent
Ethane	Not Recommended
Ethanol	Excellent
Ethanolamine	Good
Ether	Poor
Ethyl Acetate	Good
Ethyl Benzoate	No Data
Ethyl Chloride	Excellent
Ethyl Ether	Not Recommended
Ethyl Sulfate	No Data
Ethylene Bromide	Poor
Ethylene Chloride	Not Recommended
Ethylene Chlorohydrin	Good
Ethylene Diamine	Excellent
Ethylene Dichloride	Poor
Ethylene Glycol	Excellent
Ethylene Oxide	Poor
Fatty Acids	Not Recommended
Ferric Chloride	Excellent
Ferric Nitrate	Excellent
Ferric Sulfate	Excellent
Ferrous Chloride	No Data
Ferrous Sulfate	Excellent



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Fluoboric Acid	Excellent up to 48oC
Fluorine	Excellent up to 22oC
Fluosilicic Acid	Excellent up to 48oC
Formaldehyde 100%	Excellent
Formaldehyde 40%	Excellent
Formic Acid	Excellent
Freon 113	Not Recommended
Freon 12	Good
Freon 22	Excellent
Freon TF	Not Recommended
Freonr 11	Not Recommended
Fruit Juice	No Data
Fuel Oils	Not Recommended
Furan Resin	Poor
Furfural	Not Recommended
Gallic Acid	Good
Gasoline (high-aromatic)	Not Recommended
Gasoline, leaded, ref.	Not Recommended
Gasoline, unleaded	Not Recommended
Gelatin	Excellent
Glucose	Excellent
Glue, P.V.A.	Excellent
Glycerin	Excellent
Glycolic Acid	Excellent
Gold Monocyanide	No Data
Grape Juice	Excellent
Grease	Not Recommended
Heptane	Not Recommended
Hexane	Not Recommended
Honey	Excellent
Hydraulic Oil (Petro)	Not Recommended
Hydraulic Oil (Synthetic)	Excellent
Hydrazine	Excellent
Hydrobromic Acid 100%	Excellent
Hydrobromic Acid 20%	Excellent
Hydrochloric Acid 100%	Not Recommended
Hydrochloric Acid 20%	Excellent
Hydrochloric Acid 37%	Poor
Hydrochloric Acid, Dry Gas	No Data
Hydrocyanic Acid	Good



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Hydrocyanic Acid (Gas 10%)	Excellent
Hydrofluoric Acid 100%	Not Recommended
Hydrofluoric Acid 20%	Not Recommended
Hydrofluoric Acid 50%	Not Recommended
Hydrofluoric Acid 75%	Poor
Hydrofluosilicic Acid 100%	Excellent
Hydrofluosilicic Acid 20%	Excellent
Hydrogen Gas	Excellent
Hydrogen Peroxide 10%	Excellent
Hydrogen Peroxide 100%	Not Recommended
Hydrogen Peroxide 30%	Good
Hydrogen Peroxide 50%	Good
Hydrogen Sulfide (aqua)	Good
Hydrogen Sulfide (dry)	Good
Hydroquinone	Not Recommended
Hydroxyacetic Acid 70%	Excellent
Ink	No Data
Iodine	Good
Iodine (in alcohol)	Excellent
Iodoform	Excellent
Isooctane	Not Recommended
Isopropyl Acetate	Good
Isopropyl Ether	Not Recommended
Isotane	No Data
Jet Fuel (JP3, JP4, JP5)	Not Recommended
Kerosene	Not Recommended
Ketones	Excellent
Lacquer Thinners	Not Recommended
Lacquers	Not Recommended
Lactic Acid	Excellent
Lard	Not Recommended
Latex	Excellent
Lead Acetate	Excellent
Lead Nitrate	Excellent up to 48oC
Lead Sulfamate	Excellent
Ligroin	Not Recommended
Lime	Not Recommended
Linoleic Acid	Not Recommended
Lithium Chloride	Excellent up to 22oC
Lithium Hydroxide	No Data



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Lubricants	Not Recommended
Lye: Ca(OH) <sub>2</sub> Calcium Hydroxide	Excellent
Lye: KOH Potassium Hydroxide	Excellent up to 48oC
Lye: NaOH Sodium Hydroxide	Good up to 22oC
Magnesium Bisulfate	No Data
Magnesium Carbonate	Excellent
Magnesium Chloride	Excellent
Magnesium Hydroxide	Excellent
Magnesium Nitrate	Excellent
Magnesium Oxide	No Data
Magnesium Sulfate (Epsom Salts)	Excellent
Maleic Acid	Not Recommended
Maleic Anhydride	Not Recommended
Malic Acid	Not Recommended
Manganese Sulfate	Excellent up to 48oC
Mash	Excellent
Mayonnaise	No Data
Melamine	Excellent
Mercuric Chloride (dilute)	Excellent up to 22oC
Mercuric Cyanide	Excellent up to 22oC
Mercurous Nitrate	Excellent up to 22oC
Mercury	Excellent
Methane	Not Recommended
Methanol (Methyl Alcohol)	Excellent
Methyl Acetate	Good
Methyl Acetone	Excellent up to 22oC
Methyl Acrylate	Good
Methyl Alcohol 10%	Excellent
Methyl Bromide	Not Recommended
Methyl Butyl Ketone	Excellent up to 22oC
Methyl Cellosolve	Good up to 48oC
Methyl Chloride	Not Recommended
Methyl Dichloride	Not Recommended
Methyl Ethyl Ketone	Excellent up to 48oC
Methyl Ethyl Ketone Peroxide	Not Recommended
Methyl Isobutyl Ketone	Good up to 22oC
Methyl Isopropyl Ketone	Poor to 22oC (not recommended higher)
Methyl Methacrylate	Not Recommended
Methylamine	Excellent up to 22oC
Methylene Chloride	Poor to 22oC (not recommended higher)





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Milk	Excellent
Mineral Spirits	Not Recommended
Molasses	Excellent up to 22oC
Monochloroacetic acid	Poor
Monoethanolamine	Good
Morpholine	Not Recommended
Motor oil	Not Recommended
Mustard	Excellent
Naphtha	Not Recommended
Naphthalene	Not Recommended
Natural Gas	Not Recommended
Nickel Chloride	Excellent up to 22oC
Nickel Nitrate	Excellent up to 48oC
Nickel Sulfate	Excellent up to 22oC
Nitrating Acid (< 15% HNO3)	No Data
Nitrating Acid (> 15% H2SO4)	Excellent up to 22oC
Nitrating Acid (S1% Acid)	No Data
Nitrating Acid (S15% H2SO4)	No Data
Nitric Acid (20%)	Excellent up to 22oC
Nitric Acid (50%)	Not Recommended
Nitric Acid (5-10%)	Excellent up to 22oC
Nitric Acid (Concentrated)	Not Recommended
Nitrobenzene	Good up to 22oC
Nitrogen Fertilizer	No Data
Nitromethane	Good up to 48oC
Nitrous Acid	Excellent
Nitrous Oxide	Excellent
Oils: Aniline	Good
Oils: Anise	No Data
Oils: Bay	No Data
Oils: Bone	No Data
Oils: Castor	Good
Oils: Cinnamon	No Data
Oils: Citric	Good
Oils: Clove	No Data
Oils: Coconut	Not Recommended
Oils: Cod Liver	Excellent
Oils: Corn	Poor
Oils: Cottonseed	Not Recommended
Oils: Creosote	Not Recommended



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Oils: Diesel Fuel (20, 30, 40, 50)	Not Recommended
Oils: Fuel (1, 2, 3, 5A, 5B, 6)	Not Recommended
Oils: Ginger	Excellent
Oils: Hydraulic Oil (Petro)	Not Recommended
Oils: Hydraulic Oil (Synthetic)	Excellent
Oils: Lemon	Not Recommended
Oils: Linseed	Not Recommended
Oils: Mineral	Not Recommended
Oils: Olive	Not Recommended
Oils: Orange	No Data
Oils: Palm	Excellent
Oils: Peanut	Not Recommended
Oils: Peppermint	No Data
Oils: Pine	Not Recommended
Oils: Rapeseed	Excellent
Oils: Rosin	No Data
Oils: Sesame Seed	No Data
Oils: Silicone	Excellent
Oils: Soybean	Poor
Oils: Sperm (whale)	No Data
Oils: Tanning	No Data
Oils: Transformer	Not Recommended
Oils: Turbine	Excellent
Oleic Acid	Good
Oleum 100%	Not Recommended
Oleum 25%	Not Recommended
Oxalic Acid (cold)	Excellent
Ozone	Excellent
Palmitic Acid	Good up to 22oC
Paraffin	Not Recommended
Pentane	Not Recommended
Perchloric Acid	Good
Perchloroethylene	Not Recommended
Petrolatum	Excellent
Petroleum	Not Recommended
Phenol (10%)	Good
Phenol (Carbolic Acid)	Good
Phosphoric Acid (>40%)	Good
Phosphoric Acid (crude)	Good
Phosphoric Acid (molten)	No Data



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Phosphoric Acid (S40%)	Good
Phosphoric Acid Anhydride	No Data
Phosphorus	No Data
Phosphorus Trichloride	Excellent up to 22oC
Photographic Developer	Good
Photographic Solutions	Excellent up to 22oC
Phthalic Acid	Excellent up to 22oC
Phthalic Anhydride	Excellent
Picric Acid	Good
Antimony Plating 130°F	No Data
Arsenic Plating 110°F	No Data
Brass Plating: High-Speed Brass Bath 110°F	No Data
Brass Plating: Regular Brass Bath 100°F	No Data
Bronze Plating: Cu-Cd Bronze Bath R.T.	Excellent
Bronze Plating: Cu-Sn Bronze Bath 160°F	Excellent
Bronze Plating: Cu-Zn Bronze Bath 100°F	No Data
Cadmium Plating: Cyanide Bath 90°F	No Data
Cadmium Plating: Fluoborate Bath 100°F	No Data
Chromium Plating: Barrel Chrome Bath 95°F	No Data
Chromium Plating: Black Chrome Bath 115°F	No Data
Chromium Plating: Chromic-Sulfuric Bath 130°F	No Data
Chromium Plating: Fluoride Bath 130°F	No Data
Chromium Plating: Fluosilicate Bath 95°F	No Data
Copper Plating (Acid): Copper Fluoborate Bath 120°F	No Data
Copper Plating (Acid): Copper Sulfate Bath R.T.	No Data
Copper Plating (Cyanide): Copper Strike Bath 120°F	No Data
Copper Plating (Cyanide): High-Speed Bath 180°F	No Data
Copper Plating (Cyanide): Rochelle Salt Bath 150°F	No Data
Copper Plating (Misc): Copper (Electroless)	No Data
Copper Plating (Misc): Copper Pyrophosphate	No Data
Gold Plating: Acid 75°F	No Data
Gold Plating: Cyanide 150°F	No Data
Gold Plating: Neutral 75°F	No Data
Indium Sulfamate Plating R.T.	No Data
Iron Plating: Ferrous Am Sulfate Bath 150°F	No Data
Iron Plating: Ferrous Chloride Bath 190°F	No Data
Iron Plating: Ferrous Sulfate Bath 150°F	No Data
Iron Plating: Fluoborate Bath 145°F	No Data
Iron Plating: Sulfamate 140°F	No Data
Iron Plating: Sulfate-Chloride Bath 160°F	No Data



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Lead Fluoborate Plating	No Data
Nickel Plating: Electroless 200°F	No Data
Nickel Plating: Fluoborate 100-170°F	No Data
Nickel Plating: High-Chloride 130-160°F	No Data
Nickel Plating: Sulfamate 100-140°F	No Data
Nickel Plating: Watts Type 115-160°F	No Data
Rhodium Plating 120°F	Excellent
Silver Plating 80-120°F	Excellent
Tin-Fluoborate Plating 100°F	No Data
Tin-Lead Plating 100°F	No Data
Zinc Plating: Acid Chloride 140°F	No Data
Zinc Plating: Acid Fluoborate Bath R.T.	No Data
Zinc Plating: Acid Sulfate Bath 150°F	No Data
Zinc Plating: Alkaline Cyanide Bath R.T.	No Data
Potash (Potassium Carbonate)	Excellent up to 22oC
Potassium Bicarbonate	Excellent
Potassium Bromide	Excellent up to 22oC
Potassium Chlorate	Excellent up to 22oC
Potassium Chloride	Excellent up to 22oC
Potassium Chromate	Excellent up to 48oC
Potassium Cyanide Solutions	Excellent up to 22oC
Potassium Dichromate	Excellent up to 22oC
Potassium Ferricyanide	Excellent
Potassium Ferrocyanide	Excellent
Potassium Hydroxide (Caustic Potash)	Excellent up to 48oC
Potassium Hypochlorite	Excellent up to 22oC
Potassium Iodide	Excellent
Potassium Nitrate	Excellent
Potassium Oxalate	No Data
Potassium Permanganate	Excellent
Potassium Sulfate	Excellent up to 22oC
Potassium Sulfide	Excellent
Propane (liquefied)	Not Recommended
Propylene	Not Recommended
Propylene Glycol	Excellent
Pyridine	Good
Pyrogallic Acid	Good
Resorcinal	Good up to 22oC
Rosins	No Data
Rum	Excellent



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Rust Inhibitors	No Data
Salad Dressings	No Data
Salicylic Acid	Excellent
Salt Brine (NaCl saturated)	Excellent
Sea Water	Excellent up to 48oC
Shellac (Bleached)	Excellent up to 48oC
Shellac (Orange)	Excellent
Silicone	Excellent
Silver Bromide	No Data
Silver Nitrate	Excellent
Soap Solutions	Excellent
Soda Ash (see Sodium Carbonate)	Excellent up to 48oC
Sodium Acetate	Excellent
Sodium Aluminate	Excellent
Sodium Benzoate	Excellent
Sodium Bicarbonate	Excellent up to 48oC
Sodium Bisulfate	Excellent up to 48oC
Sodium Bisulfite	Excellent up to 48oC
Sodium Borate (Borax)	Excellent
Sodium Bromide	Excellent
Sodium Carbonate	Excellent up to 48oC
Sodium Chlorate	Excellent
Sodium Chloride	Excellent
Sodium Chromate	No Data
Sodium Cyanide	Excellent up to 48oC
Sodium Ferrocyanide	Excellent
Sodium Fluoride	Excellent
Sodium Hydrosulfite	Good
Sodium Hydroxide (20%)	Good
Sodium Hydroxide (50%)	Good up to 22oC
Sodium Hydroxide (80%)	Good up to 22oC
Sodium Hypochlorite (<20%)	Good
Sodium Hypochlorite (100%)	Good up to 22oC
Sodium Hyposulfate	No Data
Sodium Metaphosphate	Excellent
Sodium Metasilicate	Excellent up to 22oC
Sodium Nitrate	Excellent
Sodium Perborate	Excellent
Sodium Peroxide	Excellent
Sodium Polyphosphate	Excellent



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Sodium Silicate	Excellent
Sodium Sulfate	Excellent
Sodium Sulfide	Excellent up to 48oC
Sodium Sulfite	Excellent
Sodium Tetraborate	Excellent
Sodium Thiosulfate (hypo)	Excellent up to 48oC
Sorghum	No Data
Soy Sauce	No Data
Stannic Chloride	Excellent
Stannic Fluoborate	No Data
Stannous Chloride	Poor
Starch	Excellent
Stearic Acid	Good
Stoddard Solvent	Not Recommended
Styrene	Not Recommended
Sugar (Liquids)	Excellent
Sulfate (Liquors)	Excellent
Sulfur Chloride	Not Recommended
Sulfur Dioxide	Excellent up to 48oC
Sulfur Dioxide (dry)	Excellent up to 48oC
Sulfur Hexafluoride	Good
Sulfur Trioxide	Poor to 48oC (not recommended higher)
Sulfur Trioxide (dry)	Poor to 22oC (not recommended higher)
Sulfuric Acid (<10%)	Excellent
Sulfuric Acid (10-75%)	Good up to 48oC
Sulfuric Acid (75-100%)	Good up to 22oC
Sulfuric Acid (cold concentrated)	Poor
Sulfuric Acid (hot concentrated)	Not Recommended
Sulfurous Acid	Good
Sulfuryl Chloride	No Data
Tallow	Excellent
Tannic Acid	Excellent
Tanning Liquors	Good
Tartaric Acid	Good
Tetrachloroethane	Not Recommended
Tetrachloroethylene	Not Recommended
Tetrahydrofuran	Not Recommended
Tin Salts	Good
Toluene (Toluol)	Not Recommended
Tomato Juice	Excellent



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Trichloroacetic Acid	Good
Trichloroethane	Not Recommended
Trichloroethylene	Not Recommended
Trichloropropane	No Data
Tricresylphosphate	Excellent
Triethylamine	Excellent
Trisodium Phosphate	Excellent
Turpentine	Not Recommended
Urea	Excellent
Uric Acid	No Data
Urine	Excellent up to 22oC
Varnish	Not Recommended
Vegetable Juice	Excellent
Vinegar	Excellent
Vinyl Acetate	Good up to 48oC
Vinyl Chloride	Poor
Water, Acid, Mine	Excellent
Water, Deionized	Excellent up to 22oC
Water, Distilled	Excellent
Water, Fresh	Excellent
Water, Salt	Excellent
Weed Killers	No Data
Whey	No Data
Whiskey & Wines	Excellent
White Liquor (Pulp Mill)	No Data
White Water (Paper Mill)	No Data
Xylene	Not Recommended
Zinc Chloride	Excellent
Zinc Hydrosulfite	Excellent

## IMPORTANT NOTES

This information has been supplied to Plastic Pipe Shop Ltd by its suppliers and other reputable sources. The information should only be used as a guide to choosing the correct material for your application. The ratings for each chemical are generally based on a 48 hour exposure period. There is no data for effects beyond this timescale. It is recommended that before any ordering and installations are carried out, that the materials are tested in the specific conditions of the application in which they are to be used.



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