

Chemical Compatibility Guide for: High Density Polyethylene Overpaks and Utility Trays

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Chemical Resistance is a measure of effects under "No Load" conditions. During a chemical resistance test, many effects may appear, including:

- Change in size or shape (swelling, shrinkage, distortion)
- Change in color (absorption, extraction, chemical reaction)
- Changes in weight (absorption, extraction)
- Change in surface quality (crazing, cracking, loss of gloss, softening)
- Change in physical properties, such as strength and stiffness

ASTM D43-60T Testing:

Recommended testing time is 7 (seven) days. However, 4 (four) weeks were used to obtain data presented here. In addition to the recommended testing temperature of 75° F, tests at 125° F were conducted. If no effects at 75° F were seen, and severe effects developed at 125° F, caution against long-term continuous exposure was indicated.

Key:

Pure reagents were used in these tests. This report shows their effects on High Density Polyethylene (HDPE) according to the following grading system:

E = Excellent (Unaffected in any way)

G = Good (Very slight discoloration - Expected life: months to years)

F = Fair (Slight etching, discoloration and/or dimensional change - Expected life: weeks to months)

P = Poor (Considerable change - Expected life: days)

N = Not Recommended (Severe effect. HDPE became soft in hours; unusable in a few days)

S = Solvent

Chemical Name	75°	125°
Acetaldehyde	F	N
Acetic 5%	E	E
Acetic 25%	E	E
Acetic 50%	E	E
Acetic Glacial	E	G
Acetic Anhydride	E	E
Acetone	E	G
Acetophenone	G	G
Acetamide Powder	E	E
Acetamide Saturated Solution	E	E
Acetyl-di-Alanine (Powder)	E	E
Acetyl-di-Leucine-n	E	E
Acetyl-di-Methionine-n (Powder)	E	E
Acetyl-di-Tryptophan-n	E	E
Acetyl-di-Vaine-n (Powder)	E	E
Acetylene Tetrabromide	N	N
Acetophenetidin	E	E
Adipic Acid	E	E
Alanine-di	E	E
Allyl Alcohol	E	E
Alolin (Powder)	E	E
Aluminum Acetate	E	E

Chemical Name	75°	125°
Aluminum Chloride 21%	E	E
Aluminum Chloride Saturated	E	E
Aluminum Fluoride	E	E
Aluminum Hydroxide	E	E
Aluminum Oxalate	E	E
Aluminum Oxide	E	E
Aluminum Potassium Sulfate	E	E
Aluminum Sulfate Saturated	E	E
Aluminum Sodium Sulfate	E	E
Amino Acetic Acid (Glycine)	E	E
Aminobutric-a-di Acid	E	E
Aminoisbutyric-2 Acid	E	E
Ammonia	G	G
Ammonium Acetate (Saturated)	E	E
Ammonium Aluminum Sulfate	E	E
Ammonium Bicarbonate	E	E
Ammonium Bifluoride (Saturated)	E	E
Ammonium Bromide	E	E
Ammonium Carbonate	E	E
Ammonium Carbonate Saturated	E	E
Ammonium Chloride	E	E
Ammonium Dichromate (Saturated)	G	G

Chemical Name	75°	125°
Ammonium Fluoride (10%)	G	G
Ammonium Glycolate	G	G
Ammonium Hydroxide: 5%	G	G
Ammonium Hydroxide: 15%	E	G
Ammonium Hydroxide: 30%	G	F
Ammonium Hydroxide Concentrated	G	F
Ammonium Metaphosphate	G	G
Ammonium Molybdate	E	E
Ammonium Nitrate	G	G
Ammonium Oxylate	G	G
Ammonium Persulfate	G	G
Ammonium Phosphate	G	G
Ammonium Sulfate	G	G
Ammonium Sulfocyanide	E	E
Ammonium Thiocyanate	G	G
Ammonium Thioglycolate	G	G
Amyl-n-Alcohol	E	G
Amyl Acetate-n	F	F
Amyl Chloride	N	N
Amyl Phthalate	E	G
Aniline	G	F
Aniline Sulfate	G	G
Anise Seed Oil	F	P
Anthranilic	E	E
Antimony Trichloride	G	G
Aqua Regia (3 parts conc. HCL, 1 part conc. HNO3)	G	P
Arsenic (Concentrated)	G	G
Arsenic Trioxide	G	G
Aspirin (Powder)	E	E
Atropine Sulfate	E	E
Barium Bromide	E	E
Barium Carbonate	E	E
Barium Carbonate Saturated	E	E
Barium Chloride	G	G
Barium Chloride Saturated	E	E
Barium Hydroxide	G	G
Barium Sulfate	G	G
Barium Sulfide	E	E
Beer	E	E
Benzaldehyde	G	F
Benzaldehyde 1% (In Isopropyl Alcohol)	E	E
Benzaldehyde 5% (In Isopropyl Alcohol)	E	E
Benzaldehyde 10% (In Isopropyl Alcohol)	E	G
Benzene	F	F
Benzene Hexachloride-g	G	G
Benzene Hexachloride-g 20% (Lindane)	N	N
Benzene Sulfonic Acid	G	G
Benzoic Acid: Crystals	E	E
Benzoic Acid: Saturated	E	E
Benzoyl Alcohol	N	N

Chemical Name	75°	125°
Benzoyl Alcohol 1.5%	G	G
Benzoyl Acetate	G	F
Bismuth Carbonate	G	G
Borax: Powder	E	E
Borax: Saturated	E	E
Boric Acid	E	E
Boric Acid 10%	E	E
Boric Acid Saturated Solution	E	E
Boron Trifluoride	G	G
Brine	E	E
Bromine	N	N
Bromo Toluene-m	N	N
Butadiene	N	N
Butanane-2 4p-Methoxy Phenol	N	N
Butter	E	E
Butyl-n Alcohol	E	E
Butyl-Sec Alcohol	E	G
Butyl-tert Alcohol	E	F
Butyl Acetate-n	G	F
Butyl Chloride	N	N
Butylphenol-di-sec	N	N
Butyl-n Stearate	G	G
Butylphenol-di-tert	N	N
Butyric-n Acid	N	N
Butyaldehyde	N	N
Cadmium Bromide	E	E
Caffeine Citrate (Saturated)	E	E
Calcium Carbonate	G	G
Calcium Chlorate	E	E
Calcium Chloride (Saturated)	E	E
Calcium Chloride Sulfate	E	E
Calcium Hydroxide (Concentrated)	E	E
Calcium Hypochlorite Powder	G	G
Calcium Hypochlorite -20%	E	G
Calcium Hypochlorite (Saturated)	E	G
Calcium Nitrate	E	E
Calcium Nitrate Saturated	E	G
Calcium Oxide: Powder	E	E
Calcium Oxide: Saturated	E	E
Calcium Salicylate	E	E
Calcium Sulfate	E	E
Camphor Crystals	E	G
Camphor Oil	N	N
Carbazole	E	E
Carbon Bisulfide	N	N
Carbon Dioxide	G	G
Carbon Monoxide	G	G
Carbon Tetrachloride	P	P
Carnuba Wax	E	E
Carrot Juice	E	E

Chemical Name	75°	125°
Castor Oil U.S.P.	E	E
Catsup	E	E
Cedar Leaf Oil	P	N
Cedar Wood Oil	N	N
Cellosolve Acetate	G	F
Cesium Bromide	E	E
Cetyl Alcohol	E	F
Chlorine:10% in air	F	N
Chlorine:100%	F	N
Chlorine: 10% moist	F	N
Chloro-1, Nitropropane-1	N	N
Chloro-2, Phenylphenol-4	G	F
Chloroacetic Acid (Powder)	E	E
Chlorobenzene	N	N
Chloroform	F	P
Chlorophenol-o	N	N
Chloropropionic Acid	E	G
Chlorosulphonic Acid	N	N
Chromic Acid: 10%	E	E
Chromic Acid: 20%	E	E
Chromic Acid: 50%	E	E
Chromic Acid: Plating Solution	E	E
Chromic and Sulfuric Acid Mix	G	G
Cinnamon	E	E
Cinnamon Oil	N	N
Citric Acid: Crystals	E	E
Citric Acid: 10%	E	E
Citronella Oil	F	N
Cloves (Ground)	G	G
Clove Oil	G	F
Coconut Oil	E	G
Cod Liver Oil	E	E
Coffee: Ground	E	E
Coffee: Instant Powder	E	E
Copper Chloride	G	G
Copper Chloride Saturated	E	E
Copper Cyanide	E	E
Copper Fluoroborate	E	E
Copper Nitrate	E	E
Copper Sulfate	E	E
Copper Sulfate Saturated	E	E
Corn Oil	E	E
Cottonseed Oil	E	E
Cranberry Sauce	E	E
Cresol	N	N
Cumyl Phenol-p	N	N
Cuprous Oxide	E	E
Cyanoacetic Acid	E	E
Cyclohexyl Alcohol	E	E
Cyclohexane	N	N

Chemical Name	75°	125°
Cyclohexanone	F	F
Decalin	N	N
Dehydrocetic Acid Powder	E	E
Dehydrocetic Acid 1%	E	G
Diacetone	E	F
Dibutoxyethyl Phthalate	E	G
Dibutyl Phthalate	E	G
Dibutyl Sebacate	E	G
Dichlorobenzene-p (Paradow)	F	P
Dichlorobenzene-o	N	N
Dichloro-Diphenyl-Trichloroethane (75% D.D.T.)	E	G
Diethanolamine	G	G
Diethyl Benzene	N	N
Diethyl Ether	N	N
Diethyl Ketone	F	F
Diethyl Malonate	E	G
Diethyl Phthalate	E	E
Diethylene Glycol	E	E
Diethylene Glycol Butyl Ether	E	E
Diethylene Glycol Ethyl Ether	E	E
Diethylene Glycol Methyl Ether	E	E
Diethylene Triamine	E	E
Dihydroxyphenylalanine-34-di	E	G
Dimethyl-dichloro-vinyl-phosphate	G	G
Dimethyl Formamide	E	E
Dioctyl Phthalate	E	G
Dioxane-1,4	F	F
Diphenyl Amine	E	G
Diphenyl Oxide	F	P
Dipropylene Glycol	E	E
Dipropylene Glycol Methyl Ether	E	G
Ethyl Alcohol: 40%	G	G
Ethyl Alcohol: Absolute	G	G
Ethyl Alcohol: Formula 30 (USP)	E	E
Ethyl Alcohol: 2-B-95%	E	E
Ethyl Acetate	G	G
Ethyl Acetate 85-88%	G	G
Ethyl Benzene	N	N
Ethyl Benzoate	F	F
Ethyl Bromoacetate	G	G
Ethyl Butyrate	F	F
Ethyl Chloride: Gas	N	N
Ethyl Chloride: Liquid	N	N
Ethyl Chloroacetate	G	G
Ethyl Cyanoacetate	E	E
Ethyl Lactate	E	E
Ethyl Monochloro Acetate	G	G
Ethyl Salicylate	F	F
Ethyl Chloride	N	N
Ethyl Chlorohydrin	N	N

Chemical Name	75°	125°
Ethyl Diamine	E	G
Ethylene Dichloride	N	N
Ethylene Glycol	E	E
Ethylene Glycol Butyl Ether	E	G
Ethylene Glycol Ethyl Ether	E	E
Ethylene Glycol Methyl Ether	E	E
Ethylene Glycol Phenyl Ether	E	E
Ethylene Oxide	P	P
Ethylene Trichloride	N	N
Eugenol	N	N
Ferric Ammonium Sulfate: Crystals	E	E
Ferric Ammonium Sulfate: Saturated	E	E
Ferric Chloride	E	E
Ferric Chloride 40%	G	G
Ferric Chloride Saturated	G	G
Ferric Nitrate	G	G
Ferric Sulfate	E	E
Ferric Sulfate Saturated	E	E
Ferrous Ammonium Citrate	G	G
Ferrous Chloride	G	G
Ferrous Chloride Saturated	G	G
Ferrous Sulfate	G	G
Ferrous Sulfate 15%	G	G
Ferrous Sulfate 40%	G	G
Ferrous Sulfate Saturated	G	G
Fluoboric	G	G
Fluorine	F	N
Fluosilicic	G	G
Fluosilicic 20%	G	G
Formaldehyde: 10%	E	G
Formaldehyde: 30%	E	E
Formaldehyde: 37%	G	F
Formaldehyde: 40%	G	F
Formic Acid: 3%	G	G
Formic Acid: 10%	G	G
Formic Acid: 25%	G	G
Formic Acid: 50%	G	G
Formic Acid: 90%	G	G
Formic Acid: 98-100%	G	G
Furaldehyde-2	G	G
Furfuryl Alcohol	N	N
Gallic Acid: Powder	E	E
Gallic Acid: Saturated	E	G
Gasoline: Aviation	P	P
Gasoline: Ethyl	F	P
Gasoline: Regular	P	P
Gasoline: White	P	P
Glycerine	E	E
Glycerol Triacetate	F	P
Glucose	E	E

Chemical Name	75°	125°
Grape Juice	E	E
Grapefruit Juice	E	E
Grapefruit Juice Concentrated	E	E
Heptane-n	F	P
Heptyl-2-Alcohol	G	G
Hexachlorobenzene	E	E
Hexane	P	P
Hexyl-n Alcohol	E	G
Hexyl-2 Alcohol	E	G
Hydrobromic	E	E
Hydrobromic 40%	E	E
Hydrobromic 50%	E	E
Hydrochloric: 1-5%	E	E
Hydrochloric: 10%	E	E
Hydrochloric: 20%	E	E
Hydrochloric: 30%	E	E
Hydrochloric: 35%	E	G
Hydrochlorous	E	E
Hydrocyanic	E	E
Hydrofluoric: 4%	G	G
Hydrofluoric: 40%	G	G
Hydrofluoric: 48%	G	G
Hydrogen	E	E
Hydrogen Peroxide: 1%	E	E
Hydrogen Peroxide: 3%	E	E
Hydrogen Peroxide: 12%	E	E
Hydrogen Peroxide: 30%	E	E
Hydrogen Peroxide: 90%	E	E
Hydroxylamine Hydrochloride (Conc.)	E	E
Hydroquinone: Powder	E	E
Hydroquinone: Saturated	G	G
Hypochlorous Acid	E	E
Isobutyl Alcohol	E	E
Iodine Crystals	F	F
Iso-octane	F	F
Isoleucine-di	E	E
Isopropyl Alcohol	E	E
Isopropyl Acetate	F	P
Isopropyl Benzene	N	N
Isopropylphenol-o	N	N
Isopropylphenol-p	N	N
Kerosene	F	F
Lactic Acid: 3%	G	G
Lactic Acid: 10%	G	G
Lactic Acid: 85%	G	G
Lanolin	E	E
Lard	E	E
Lauryl Alcohol	G	G
Lauryl Sulfate	G	G
Lauryl Sulfate Saturated	G	G

Chemical Name	75°	125°
Lead Acetate: Crystals	E	E
Lead Acetate: Saturated	E	E
Lead Arsenate	E	E
Lead Nitrate	E	E
Lemon Juice	E	E
Lemon Oil	F	P
Leucine-di (Powder)	E	E
Lime Juice	E	E
Linseed Oil: Refined	E	E
Linseed Oil: Raw	E	E
Linseed Oil: Boiled	E	E
Lithium Bromide (Saturated)	E	E
Lysine-Monohydrochloride-di	E	E
Lysine-Dihydrochloride-di	E	E
Magnesium Bromide	E	E
Magnesium Carbonate	E	E
Magnesium Carbonate Saturated	E	E
Magnesium Chloride	G	G
Magnesium Chloride Sulfate	G	G
Magnesium Hydroxide	G	G
Magnesium Iodide (Sat.)	E	E
Magnesium Nitrate	E	E
Magnesium Sulfate	G	G
Magnesium Sulfate 10%	E	E
Magnesium Sulfate 20% (Saturated)	E	E
Maleic Acid	E	E
Maleic Acid 10%	E	E
Maleic Acid 25%	E	E
Margarine	E	E
Mercapto Acetic Acid 95%	G	G
Mercuric Chloride	G	G
Mercuric Chloride 5%	E	G
Mercuric Chloride Saturated	E	G
Mercuric Cyanide	G	G
Mercurous Chloride	G	G
Mercurous Nitrate	G	G
Mesityl Oxide	P	P
Methionine-di (Powder)	E	E
Methoxyethyl Oleate	G	G
Methyl Acetate 82%	G	G
Methyl Alcohol	E	E
Methyl Amyl Alcohol	E	E
Methyl Bromide Liquid under 20 psi	N	N
Methyl Bromoacetate	F	P
Methyl Chloride Liquid under 65 psi	N	N
Methylcyclohexane	P	N
Methyl Ethyl Ketone	G	G
Methyl Eugenol	N	N
Methyl Isobutyl Ketone	F	P
Methyl Propyl Ketone	F	P

Chemical Name	75°	125°
Methyl Salicylate	G	G
Methylene Bromide	N	N
Methylene Chloride	F	N
Methylene Chlorobromide	F	N
Methylene Iodide	N	N
Milk: Regular	G	G
Milk: Dried	E	E
Milk: Wet Paste (Instant)	E	E
Mineral Oil USP	E	G
Mannitol Alcohol	E	G
Mono-Di-Tri-Propylene Glycol Methylethers	E	E
Monoethylaniline	G	F
Morpholine	G	F
Mustard (Prepared)	E	E
Naphtha (VMP)	N	N
Naphthalene: Crystals	G	P
Naphthalene: Vapors	G	P
Natural Gas (Wet)	E	G
Nickel Chloride	G	G
Nickel Nitrate	G	G
Nickel Sulfate	G	G
Nitric Acid: 1%	E	E
Nitric Acid: 5%	E	E
Nitric Acid: 10%	E	G
Nitric Acid: 20%	G	G
Nitric Acid: 25%	G	G
Nitric Acid: 30%	G	G
Nitric Acid: 50%	G	G
Nitric Acid: 65%	G	F
Nitric Acid: 70% (Concentrated)	G	P
Nitrobenzene	N	N
Nitroglycerine	G	N
Nitrosyl Chloride	N	N
Nitrous Acid	N	N
Nonyl-n Alcohol	E	E
Nutmeg Oil	N	N
Octane-n	E	E
Octyl-n Alcohol	E	G
Octyl Cresol	F	N
Oleic Acid	E	E
Olive Oil	E	E
Orange Juice	E	E
Orange Juice Concentrated	E	E
Orange Oil	N	N
Orange Peelings (Fresh)	E	E
Oxalic Acid: Powder	E	E
Oxalic Acid: Saturated	E	E
Ozone	G	F
Palmitic Acid (Powder)	E	E
Palm Oil	E	E

Chemical Name	75°	125°
Parachlordine	F	F
Paraffin Oil	G	F
Paraldehyde	G	G
Peanut Butter	E	E
Pentachlorophenol	E	G
Pentachlorophenol Dowicide "G" Sodium Salt 15%	E	G
Pentachlorophenol Dowicide "G" Sodium Salt 10%	G	G
Pentachlorophenol Dowicide "G" Sodium Salt Powder	E	E
Pepper (Fresh Ground)	G	G
Peppermint Oil	G	P
Perchloric Acid	E	E
Perchlorethylene	N	N
Petroleum Jelly	E	E
Phenol-Crystals	F	N
Phenol 5%	E	G
Phenolsulfonic Acid	E	E
Phenoxyacetic Acid	E	E
Phenyl Ethyl Alcohol	E	G
Phenyl Glycine Potassium Salt	E	G
Phenyl Hydrazine	G	F
Phenylphenol-o	E	E
Phenylphenol-p	E	E
Phenylphenol-o Sodium Salt	E	E
Phosphoric Acid: 1-5%	E	E
Phosphoric Acid: 10%	E	E
Phosphoric Acid: 25%	E	E
Phosphoric Acid: 30%	E	E
Phosphoric Acid: 50%	E	E
Phosphoric Acid: 85%	E	E
Phosphoric Anhydride	E	E
Phthalic Anhydride	G	G
Phosphorous Oxychloride	N	N
Phosphorous Pentachloride	N	N
Phosphorous Trichloride	G	N
Picric Acid	E	G
Pine Oil	G	F
Pine Needle Oil	N	N
Polyethylene Glycol Monolaurate	E	E
Polyglycol E-300 to 3-4000	G	G
Potassium Aluminum Chloride 50%	G	G
Potassium Aluminum Sulfate (Saturated)	G	G
Potassium Bicarbonate	G	G
Potassium Bisulfate	E	E
Potassium Bisulfate Saturated	E	G
Potassium Borate	G	G
Potassium Bromate (Powder)	E	E
Potassium Bromate Saturated Solution	E	E
Potassium Bromide	E	G
Potassium Bromide 3%	E	E
Potassium Bromide Saturated	E	E

Chemical Name	75°	125°
Potassium Carbonate	G	G
Potassium Chlorate	G	G
Potassium Chloride	G	G
Potassium Chloride Sulfate	E	E
Potassium Cyanide	G	G
Potassium Dichromate Saturated	G	G
Potassium Ferricyanide	G	G
Potassium Ferricyanide 25%	E	E
Potassium Ferricyanide Saturated	E	E
Potassium Hydroxide	E	E
Potassium Hydroxide 1%	E	E
Potassium Hydroxide 10%	E	E
Potassium Hydroxide 30%	E	E
Potassium Hydroxide 50%	E	E
Potassium Hydroxide Concentrated	E	E
Potassium Iodide	E	E
Potassium Iodide Saturated	E	E
Potassium Manganate	E	E
Potassium Nitrate	G	G
Potassium Permanganate	G	G
Potassium Permanganate Saturated	G	G
Potassium Persulfate	E	E
Potassium Sulfate	E	E
Potassium Sulfate Saturated	E	E
Potassium Sulfide	E	E
Potassium Sulfide Saturated	E	E
Propane Gas	N	N
Propargyl Alcohol	G	G
Propyl Dichloride	P	N
Propylene Dibromide	N	N
Propylene Dichloride	N	N
Propylene Glycol	E	E
Propylene Glycol Methyl Ether	E	E
Propylene Oxide	G	F
Quinine Sulfate	G	G
Resorcinol: Powder	E	E
Resorcinol: Saturated	E	E
Resorcinol: 5%	E	E
Salicyladehyde	G	G
Salicylic Acid: Powder	E	E
Salicylic Acid: Saturated	E	E
Salicylic Ointment	G	G
Sassafras Oil	G	F
Serine-di	E	E
Sesame Oil	G	G
Silver Acetate	E	E
Silver Nitrate	E	E
Silver Nitrate Saturated	E	G
Sodium Acetate: Powder	E	E
Sodium Acetate: Saturated	E	E

Chemical Name	75°	125°
Sodium Aluminum Sulfate	E	E
Sodium Aluminum Sulfate Saturated	E	E
Sodium Benzoate: Powder	E	E
Sodium Benzoate: Saturated	E	E
Sodium Bicarbonate	E	E
Sodium Bicarbonate Saturated	E	E
Sodium Bisulfate	E	E
Sodium Bisulfate Saturated	E	E
Sodium Bisulfite	E	E
Sodium Bisulfite 4%	E	E
Sodium Bisulfite Saturated	E	E
Sodium Borate	E	E
Sodium Borate Saturated	E	E
Sodium Bromate	E	E
Sodium Bromate 10%	E	E
Sodium Bromate - Sodium Bromide (Mix)	E	E
Sodium Bromide (Saturated)	E	E
Sodium Carbonate	E	E
Sodium Carbonate 2%	E	E
Sodium Carbonate 7%	E	E
Sodium Carbonate 20%	E	E
Sodium Carbonate Saturated	E	E
Sodium Chlorate	G	G
Sodium Chloride	G	G
Sodium Chloride 3%	G	G
Sodium Chloride Saturated	G	G
Sodium Chloride Sulfate	E	E
Sodium Chloroacetate	E	E
Sodium Chloroacetate Powder	E	E
Sodium Chloroacetate Saturated	E	E
Sodium Dichromate	E	E
Sodium Dichromate Saturated	G	G
Sodium Ferricyanide	G	G
Sodium Fluoride	E	E
Sodium Fluoride Saturated	E	E
Sodium Hydroxide	E	E
Sodium Hydroxide 10%	E	E
Sodium Hydroxide 30%	E	E
Sodium Hydroxide 50%	E	E
Sodium Hydroxide Saturated	E	E
Sodium Hypochlorite: 5% Chlorine	E	E
Sodium Hypochlorite: 15%	G	G
Sodium Nitrate	E	E
Sodium Nitrate Saturated	E	E
Sodium Nitrite	E	E
Sodium Perborate	E	E
Sodium Perborate Saturated	E	E
Sodium Phosphate	E	E
Sodium Phosphate Saturated	E	E
Sodium Salicylate (Powder)	E	E

Chemical Name	75°	125°
Sodium Silicate	E	E
Sodium Sulfate	E	E
Sodium Sulfate Saturated	E	E
Sodium Sulfide	E	E
Sodium Sulfide 25%	G	G
Sodium Sulfite	E	E
Sodium Sulfite Saturated	E	E
Sodium Tetraborate (Borax): Powder	G	G
Sodium Tetraborate (Borax): Saturated Solution	G	G
Sodium Thiosulfate	E	E
Sodium Thiosulfate Saturated	E	E
Sorbitol	E	E
Soybean Oil	E	E
Spearmint Oil	P	F
Sperm Oil	E	E
Spermacet	E	E
Spruce Oil	P	N
Stannic Chloride	E	E
Stannous Chloride	E	E
Stearic Acid (Crystals)	E	E
Strontium Bromide	E	E
Strontium Salicylate: Powder	E	E
Strontium Salicylate: Saturated	E	E
Sucrose	E	E
Sulfur Chloride	N	N
Sulfur Dioxide: Dry	E	E
Sulfur Dioxide: Moist	E	E
Liquid under 46 psi pressure	N	N
Sulfuric Acid: 1-6%	E	E
Sulfuric Acid: 10%	E	E
Sulfuric Acid: 20%	E	E
Sulfuric Acid: 40%	E	E
Sulfuric Acid: 60%	E	E
Sulfuric Acid: 80%	G	F
Sulfuric Acid: 98%	E	G
Sulfur Ointment	E	E
Sulfurous Acid: 5%	E	E
Sulfurous Acid: 6%	E	E
Sulfurous Acid: 10%	E	E
Sulfurous Acid: Concentrated	E	E
Sulfur Trioxide	G	G
Sulfuryl Chloride	N	N
Tannic Acid: Powder	E	E
Tannic Acid: 1%	E	E
Tannic Acid: 20%	E	E
Tannic Acid: Saturated	E	E
Tartaric: Powder	E	E
Tartaric: Saturated	E	E
Tea (Brewed)	E	E
Tea (Brewed) Moist Leaves	E	E

Chemical Name	75°	125°
Tea (Brewed) Instant	E	E
Tea (Instant Paste)	E	E
Tetrachloroethane	N	N
Tetrachlorophenol-2, 3, 4, 6	E	F
Tetrahydrofuran	F	P
Tetralin	N	N
Thioglycolic Acid	E	E
Thionyl Chloride	N	N
Titanium Tetrachloride	N	N
Toluene	F	F
Tomato Juice	E	E
Tribromethylbenzene	N	N
Trichloroacetic (Crystals)	G	P
Trichlorobenzene-1, 2, 4	N	N
Trichloroethane	N	N
Trichloroethylene	N	N
Trichlorophenol-2, 4, 5	G	P
Trichlorophenol, Sodium-2, 4, 5	E	G
Trichlorophenol, Sodium Salt 5% 2, 4, 5	G	G
Tricresyl Phosphate	E	E
Triethanolamine	E	E
Triethanolamine 5 - 50%	E	E
Trithylene Glycol	E	E
Triethylenetetramine	G	G
Tripropylene Glycol	E	E
Tripropylene Glycol Methyl Ether	E	E
Trisodium Phosphate: Powder	E	E
Trisodium Phosphate: Saturated	E	G
Tryptophan-di (Powder)	E	E
Turkey Red Oil	G	G
Turpentine	F	F
Tyrosine-di (Powder)	E	E
Undecyl Alcohol	E	F
Urea	G	G
Valine-di (Powder)	E	E
Vanilla Extract	E	E
Vaseline	E	E
Versene Fe-3 (Liquid)	E	E
Versenol (Powder)	E	E
Vinegar	E	E
Vinyl Chloride	N	N
Vinylidene Chloride	N	N
Walnut Oil	G	G
Water	E	E
Water (Distilled)	E	E
Whiskey	E	E
Xylene-O	N	N
Yeast	E	E
Zepharin Chloride (Benzalkonium Chloride)	G	G
Zinc Bromide	E	E

Chemical Name	75°	125°
Zinc Carbonate	E	E
Zinc Carbonate Saturated	E	E
Zinc Chloride: Powder	E	E
Zinc Chloride:50% Solution	E	E
Zinc Chloride: Saturated	E	E
Zinc Hydrosulfite -10%	E	E
Zinc Oxide	E	E
Zinc Oxide Saturated	E	E
Zinc Oxide Ointment	E	E
Zinc Sulfate	E	E
Zinc Sulfate Saturated	E	E
Zinc Stearate	E	E

Chemical resistance of HDPE molding material at room temperature.

Chemical Name	Room Temp.
Acids, Inorganic: Weak	E
Acids, Inorganic: Strong	E
Acids, Inorganic: Strong Oxidizing	G
Acids, Organic: Weak	E
Acids, Organic: Strong	E
Alcohols	E
Aldehydes	E
Amines: Aliphatic	E
Amines: Aromatic	E
Bases	E
Beverages	E
Condiments	E
Esters	G
Foodstuffs	E
Glycols: Polyglycols	E
Glycols: Polyglycols Ethers	E
Hydrocarbons: Aliphatic	N
Hydrocarbons: Aromatic	N
Hydrocarbons: Chlorinated	N
Insecticides	G
Ketones	E
Oils: Essential Oils	E
Oils: Vegetable Oils	G
Pharmaceuticals	F
Salts	E