

Product Information

Chemical Compatibility for Bag Films

The compatibility of reagents with polyethylene and ethyl vinyl acetate film is summarized below. Data were compiled from various reference sources for the chemical

compatibility of plastics. The compatibility data are intended as a reference only. Actual chemical resistance may vary with specific user applications and procedures.

Chemical	EVA film	PE film
Acetic acid (dilute)	Fair	Good
Acetic acid (80%)	Fair	Fair
Acetone	Not Recommended	Not Recommended
Aluminum chloride (dilute)	Good	Good
Aluminum hydroxide	Good	Good
Aluminum sulfate	Good	Good
Ammonia salts (10%)	Good	Good
Amino acid solutions	Good	Good
Ammonium carbonate	Good	Good
Ammonium chloride	Good	Good
Ammonium nitrate	Good	Good
Ammonium persulfate	Good	Good
Ammonium sulfate	Good	Good
Ammonium thiocyanate	Good	Good
Amyl acetate	Not Recommended	Not Recommended
Amyl chloride	Not Recommended	Not Recommended
Amiline	Not Recommended	Fair
Antimony chloride	Good	Good
Arsenic acid	Good	Good
Barium carbonate	Good	Good
Barium chloride	Good	Good
Barium hydroxide	Good	Good
Barium sulfate	Good	Good
Benzene	Not Recommended	Not Recommended
Benzoic acid	Fair	Fair
Butylacetate	Not Recommended	Not Recommended
Butanediol (< 60%)	Good	Good
Borax	Good	Good
Boric acid borate solution	Fair	Good
Calcium chloride	Good	Good
Calcium hydroxide	Good	Good
Calcium hypochlorite	Good	Good
Calcium nitrate	Good	Good
Calcium salts (10%)	Good	Good

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Chemical	EVA film	PE film
Calcium sulfate	Good	Good
Castor oil	Not Recommended	Not Recommended
Chloroform	Not Recommended	Good
Citric acid (dilute)	Good	Good
Copper chloride	Good	Good
Copper nitrate	Good	Good
Copper sulfate	Good	Good
Cottonseed oil	Not Recommended	Not Recommended
Cyclohexane	Not Recommended	Not Recommended
Dimethyl sulfoxide (10%)	Good	Good
Dextrin	Good	Good
Dextrose	Good	Good
Disodium phosphate	Good	Good
Diethylene glycol	Good	Good
Dioctyl phthalate	Fair	Fair
Ethanolamine (1 M)	Good	Fair
Ethanol	Good	Good
Ethanol (> 70%)	Not Recommended	Not Recommended
Ethyl acetate (< 70%)	Good	Good
Ethyl butyrate	Not Recommended	Not Recommended
Ethyl ether	Not Recommended	Not Recommended
Ethylene glycol solution	Good	Good
EDTA solution	Fair	Good
Ferric chloride	Fair	Fair
Ferric nitrate	Fair	Fair
Ferric sulfate	Good	Good
Ferrous chloride	Good	Good
Formaldehyde (37%)	Good	Good
Formic acid	Good	Good
Fructose	Good	Good
Gallic acid	Good	Good
Glycerine	Good	Good
Glycerol	Good	Good
Glycol	Good	Good
Glycolic acid	Good	Good
Guanidine solution (2 M)	Good	Good
Hepes buffer solution	Good	Good
Hydrochloric acid (dilute)	Fair	Good
Hydrochloric acid	Fair	Fair
Hydrogen peroxide (30%)	Fair	Fair
Iron salts (10%)	Good	Good
Isopropanol	Good	Good
Lactic acid	Good	Good
Latex	Good	Good
Lead acetate	Fair	Good

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Chemical	EVA film	PE film
Magnesium carbonate	Good	Good
Magnesium chloride	Good	Good
Magnesium hydroxide	Good	Good
Magnesium nitrate	Good	Good
Magnesium sulfate	Good	Good
Magnesium salts (10%)	Good	Good
Malic acid	Good	Good
Mercuric chloride	Good	Good
Methylene chloride	Not Recommended	Not Recommended
Methanol	Good	Good
Methylene chloride	Good	Good
Midazole solution (dilute)	Good	Good
Mineral oil	Good	Fair
Nickel chloride	Good	Good
Nickel sulfate	Good	Good
Nickel nitrate	Good	Good
Nicotinic acid	Good	Good
Nitric acid (10%)	Good	Good
Oleic acid	Not Recommended	Not Recommended
Oxalic acid	Good	Good
Phenol	Not Recommended	Not Recommended
Phosphate buffered saline solution	Good	Good
Phosphoric acid	Good	Good
Picric acid	Fair	Fair
Potassium bicarbonate	Good	Good
Potassium borate	Good	Good
Potassium bromate	Good	Good
Potassium bromide	Good	Good
Potassium carbonate	Good	Good
Potassium chloride	Good	Good
Potassium dichromate	Good	Good
Potassium ferric cyanide	Good	Good
Potassium hydroxide (50%)	Good	Good
Potassium nitrate	Good	Good
Potassium perchlorate	Good	Good
Potassium permanganate	Not Recommended	Not Recommended
Potassium phosphate solution	Good	Good
Potassium sulfate	Good	Good
Potassium sulfite	Good	Good
Propylene glycol solution	Good	Fair
Propanol	Good	Good
Saline solution	Good	Good
Silicic acid	Good	Good
Sodium acetate solution	Fair	Good

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Chemical	EVA film	PE film
Sodium bicarbonate solution	Good	Good
Sodium borate	Good	Good
Sodium carbonate	Good	Good
Sodium chloride	Good	Good
Sodium hydroxide (up to 1 M)	Good	Good
Sodium hypochlorite solution (10%)	Not Recommended	Fair
Sodium salts	Good	Good
Sodium sulfate	Good	Good
Sucrose solution	Good	Good
Sulfuric acid	Not Recommended	Not Recommended
Tetrahydrofurane	Not Recommended	Not Recommended
Tetrachloroethylene	Not Recommended	Not Recommended
Tissue culture media	Good	Good
Toluene	Not Recommended	Not Recommended
Trichloroethylene	Not Recommended	Not Recommended
Tris buffer	Good	Good
Tween 80 (very dilute)	Good	Good
Urea (6 M solution)	Good	Good
Vegetable oil	Fair	Good
Water	Good	Good
Xylene	Not Recommended	Not Recommended
Zinc salts	Good	Good

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Issued February 2006 B008
0103 0805 1105 1205

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