

PRODUCT SPECIFICATION SHEET

Product Name: Eagle Manufacturing® High Visibility Column Protectors

Part #	Outside Dimensions	Inside Dimensions	Weight
EM-1704	13" x 13" x 13"	fits 4" - 6" column	16 lbs
EM-1706	24" x 24" x 42"	6" x 6" x 42	40 lbs
EM-1708	24" x 24" x 42"	8" x 8" x 42	40 lbs
EM-1710	24" x 24" x 42"	10" x 10" x 42	40 lbs
EM-1712	24" x 24" x 42"	12" x 12" x 42	40 lbs
EM-1706LM	24" x 24" x 42"	6" x 6" x 42	40 lbs
EM-1708LM	24" x 24" x 42"	8" x 8" x 42	40 lbs
EM-1710LM	24" x 24" x 42"	10" x 10" x 42	40 lbs
EM-1712LM	24" x 24" x 42"	12" x 12" x 42	40 lbs
EM-1706OR	24" x 24" x 42"	6" x 6" x 42	40 lbs
EM-1708OR	24" x 24" x 42"	8" x 8" x 42	40 lbs
EM-1710OR	24" x 24" x 42"	10" x 10" x 42	40 lbs
EM-1712OR	24" x 24" x 42"	12" x 12" x 42	40 lbs

HDPE Chemical Resistance Guide

S = Satisfactory O = Some Attack U = Unsatisfactory

Reagent	70° F (21° C)	140° F (60° C)	Reagent	70° F (21° C)	140° F (60° C)
Acetaldehyde	S	O	Castor oil conc.	S	S
Acetic acid 1-10%	S	S	Catsup	S	S
Acetic acid 10-50%	S	O	Caustic soda	S	O
Acetic acid 50-100%	S	O	Cedar leaf oil	U	U
Acetic anhydride	S	S	Cedar wood oil	U	U
Acetone	S	S	Chlorine liquid	O	U
Acids, aromatic	S	S	Chlorobenzene	O	U
Acrylic emulsions	S	S	Chloroform	U	U
Adipic acid	S	S	Chlorosulfonic acid 100%	U	U
Aluminum chloride dilute	S	S	Chrome alum sat'd.	S	S
Aluminum chloride conc.	S	S	Chromic acid 10-20%	S	O
Aluminum fluoride conc.	S	S	Chromic acid 50%	S	O
Aluminum sulfate conc.	S	S	Cider	S	S
Alume (all ltypes) conc.	S	S	Cinnamon	S	S
Amino acetic acid	S	S	Cinnamon oil	U	U
Ammonia 100% dry gas	S	S	Citric acid sat'd.	S	S
Ammonium acetate	S	S	Citronella oil	O	U
Ammonium bromide	S	S	Cloves (ground)	S	S
Ammonium carbonate	S	S	Coconut oil alcohols	S	S
Ammonium chloride sat'd.	S	S	Cod liver oil	S	S
Ammonium fluoride 20%	S	S	Coffee	S	S
Ammonium hydroxide	S	S	Copper chloride sat'd.	S	S
Ammonium metaphosphates sat'd.	S	S	Copper cyanide sat'd.	S	S
Ammonium nitrate sat's.	S	S	Copper fluoride 2%	S	S
Ammonium persulfate sat'd	S	S	Copper nitrate sat'd.	S	S
Ammonium phosphate	S	S	Copper sulfate dilute	S	S

Reagent	70° F (21° C)	140° F (60° C)	Reagent	70° F (21° C)	140° F (60° C)
Ammonium sulfate sat'd.	S	S	Corn oil	S	S
Ammonium sulfide sat'd.	S	S	Cottonseed oil	S	S
Ammonium thiocyanate sat'd.	S	S	Cranberry sauce	S	S
Amyl acetate 100%	O	U	Creola	S	O
Amyl alcohol 100%	S	S	Cuprous chloride sat'd	S	S
Amyl chloride 100%	O	U	Cuprous oxide	S	S
Aniline 100%	S	U	Cyclohexane	U	U
Anise seed oil	O	U	Cyclohexanone	U	U
Antimony chloride	S	S	Decalin	S	U
Aqua regia	O	U	Detergents synthetic	S	S
Aromatic hydrocarbons	U	U	Developers photographic	S	S
Arsenic	S	S	Dextrin saturated	S	S
Aspirin	S	S	Dextrose saturated	S	S
Barium carbonate sat'd.	S	S	Dibutyl ether	O	U
Barium chloride saturated	S	S	Dichlorobenzene (O&P)	U	U
Barium hydroxide	S	S	Diethylene glycol	S	S
Barium sulfate saturated	S	S	Disodium phosphate	S	S
Barium sulfide saturated	S	S	Dioxane	S	S
Beer	S	S	Emulsions photographic	S	S
Benzaldehyde	S	O	Ether	O	O
Benzene	O	U	Ethyl acetate 100%	O	O
Benzene sulfonic acid	S	S	Ethyl alcohol 100%	S	S
Benzic acid - Crystals	S	S	Ethyl alcohol 35%	S	S
Benzic acid - Saturated	S	S	Ethylbenzene	O	U
Bismuth carbonate sat'd.	S	S	Ethylene glycol	S	S
Black liquor	S	S	Ferric chloride sat'd.	S	S
Bleach lye 10%	S	S	Ferric nitrate sat'd.	S	S
Borax cold saturated	S	S	Ferrous ammonium citrate	S	S
Boric acid dilute	S	S	Ferrous chloride sat'd.	S	S
Brine	S	S	Ferrous sulfate	S	S
Bromic acid 10%	S	S	Fluoboric acid	S	S
Bromine liquid 100%	O	U	Fluorine	S	U
Bromochloromethane	U	U	Fluosilicic acid 32%	S	S

Reagent	70° F (21° C)	140° F (60° C)	Reagent	70° F (21° C)	140° F (60° C)
Butadiene	U	U	Fluosiic acid conc.	S	S
Butanediol 10%	S	S	Formaldehyde 10-30%	S	S
Butanediol 60%	S	S	Formaldehyde 30-40%	S	O
Butanediol 100%	S	S	Formic acid 20%	S	S
Butter	S	S	Formic acid 50%	S	S
Butyl acetate 100%	O	U	Formic acid 100%	S	S
Butyl alcohol 100%	S	S	Fructose saturated	S	S
Butylene glycol	S	S	Fuel oil	S	U
Butylic acid 100%	S	S	Furtural 100%	O	U
Caffeine citrate saturated	S	S	Furturyl alcohol	S	O
Calcium bisulfide	S	S	Galtic acid saturated	S	S
Calcium bromide	S	S	Gasoline	S	U
Calcium carbonate sat'd.	S	S	Glucose	S	S
Calcium chlorate saturated	S	S	Glycerin	S	S
Calcium chloride saturated	S	S	Glycol	S	S
Calcium hydroxide	S	S	Glycolic acid 30%	S	S
Calcium hypochloride bleach sol'n	S	S	Grape juice	S	S
Calcium nitrate 50%	S	S	Grapefruit juice	S	S
Calcium sulfate	S	S	Heptane	O	U
Camphor crystals	S	S	Hexachlorobenzene	S	S
Camphor oil	U	U	Hexane	U	U
Carbon dioxide 100% dry	S	S	Hydrobromic acid 50%	S	S
Carbon dioxide 100% wet	S	S	Hydrochloric acid 10%	S	S
Carbon dioxide cold sat'd.	S	S	Hydrochloric acid 30%	S	S
Carbon disulphide	O	U	Hydrochloric acid 35%	S	S
Carbon monoxide	S	S	Hydrocyanic acid	S	S
Carbon tetrachloride	U	U	Hydrocyanic acid sat'd.	S	S
Carbonic acid	S	S	Hydrofluoric acid 40%	S	S
Carnauba wax	S	S	Hydrofluoric acid 60%	S	S
Carrot juice	S	S	Hydrofluoric acid 75%	S	S
Hydrogen 100%	S	S	Silver	S	S
Hydrogen bromide 10%	S	S	Tin	S	S
Hydrogen chloride gas dry	S	S	Zinc	S	S

Reagent	70° F (21° C)	140° F (60° C)	Reagent	70° F (21° C)	140° F (60° C)
Hydrogen peroxide 30%	S	S	Potassium bicarbonate sat'd.	S	S
Hydrogen peroxide 90%	S	O	Potassium borate 1%	S	S
Hydroquinone	S	S	Potassium bromate 10%	S	S
Hydrogen sulfide	S	S	Potassium bromide sat'd.	S	S
Hypochlorous acid conc.	S	S	Potassium carbonate	S	S
Inks	S	S	Potassium chlorate sat'd.	S	S
Iodine crystals	O	O	Potassium chloride sat'd.	S	S
Isobutyl alcohol	S	S	Potassium cyanide sat'd.	S	S
Isopropyl alcohol	S	S	Potassium dichromate 40%	S	S
Isopropyl ether	O	U	Potassium ferri/ferro cyanide	S	S
Kerosene	O	O	Potassium nitrate sat'd.	S	S
Lactic acid 10%	S	S	Potassium perborate sat'd.	S	S
Lactic acid 90%	S	S	Potassium perchlorate 10%	S	S
Lanolin	S	S	Potassium permanganate 20%	S	S
Lard	S	S	Potassium sulfate conc.	S	S
Lead acetate sat'd.	S	S	Potassium sulfide conc.	S	S
Lead nitrate	S	S	Potassium sulfite conc.	S	S
Lemon juice	S	S	Potassium persulfate sat'd.	S	S
Lemon oil	O	U	Propane gas	S	S
Lime juice	S	S	Propargyl alcohol	S	S
Linseed oil	S	S	Propyl alcohol	S	S
Magnesium sulfate sat'd.	S	S	Propylene glycol	S	S
Margarine	S	S	Pyridine	S	O
Magnesium carbonate sat'd.	S	S	Rayon coagulating bath	S	S
Magnesium chloride saturated	S	S	Resorcinol	S	S
Magnesium hydroxide sat'd.	S	S	Salicytic acid	S	S
Magnesium nitrate sat'd.	S	S	Sea water	S	S
Mercuric chloride	S	S	Shortening	S	S
Mercuric cyanide sat'd.	S	S	Silicic acid	S	S
Mercurous nitrate sat'd.	S	S	Silver nitrate sol'n.	S	S
Mercury	S	S	Soap solution conc.	S	S
Methyl alcohol 100%	S	S	Sodium acetate sat'd.	S	S
Methyl ethyl ketone 100%	U	U	Sodium benzoate 35%	S	S

Reagent	70° F (21° C)	140° F (60° C)	Reagent	70° F (21° C)	140° F (60° C)
Methylsulfuric acid	S	S	Sodium bicarbonate sat'd.	S	S
Methylene chloride 100%	U	U	Sodium bisulfate sat'd.	S	S
Milk	S	S	Sodium bisulfite sat'd.	S	S
Mineral oils	S	U	Sodium borate	S	S
Molasses	S	S	Sodium carbonate conc.	S	S
Mustard (prepared)	S	S	Sodium chlorate sat'd.	S	S
Naphtha	O	U	Sodium chloride sat'd.	S	S
Napthalene	S	U	Sodium cyanide	S	S
Natural gas (wet)	S	S	Sodium dichromate sat'd.	S	S
Nickel chloride sat'd.	S	S	Sodium ferricyanide sat'd.	S	S
Nickel nitrate conc.	S	S	Sodium ferricyanide	S	S
Nickel sulfate	S	S	Sodium fluoride sat'd.	S	S
Nicotinic acid	S	S	Sodium hydroxide conc.	S	S
Nitric acid 0-30%	S	S	Sodium hypochlorite	S	S
Nitric acid 30-50%	S	O	Sodium nitrate	S	S
Nitric acid 70%	S	O	Sodium nitrite	S	S
Nitric acid 85-90%	U	U	Sodium perborate	S	S
Nitrobenzene 100%	U	U	Sodium phosphate	S	S
Nitroglycerine	O	U	Sodium sulfide 25% to saturated	S	S
Octane	S	S	Sodium sulfite sat'd	S	S
Oleura conc.	U	U	Sodium thlosulphate	S	S
Olive oil	S	S	Soybean oil	S	S
Orange juice	S	S	Stannous chloride sat'd.	S	S
Ozalic acid dilute	S	S	Stannic chloride sat'd.	S	S
Ozalic acid saturated	S	S	Starch solution sat'd.	S	S
Ozone	O	O	Stearic acid 100%	S	S
Palm oil	S	S	Sulfuric acid 0-50%	S	S
Paraffin oil	S	O	Sulfuric acid 70%	S	O
Peanut butter	S	S	Sulfuric acid 80%	S	U
Perchloroethylene	U	U	Sulfuric acid 96%	O	U
Pepper (fresh ground)	S	S	Sulfuric acid 96% conc.	O	U
Peppermint oil	O	U	Sulfuric acid fuming	U	U
Perchloric acid 50%	S	O	Sulfurous acid	S	S

Reagent	70° F (21° C)	140° F (60° C)	Reagent	70° F (21° C)	140° F (60° C)
Petroleum ether	U	U	Tartaric acid	S	S
Petroleum jelly	S	S	Tannic acid 10%	S	S
Phenol	S	S	Tea	S	S
Phosphoric acid 0-30%	S	S	Tetrahydrofuran	O	O
Phosphoric acid 30-90%	S	S	Toluene	U	U
Phosphoric acid over 90%	S	S	Tomato juice	S	S
Photographic solutions	S	S	Transformer oil	S	O
Phthalic anhydride	S	S	Trisodium phosphate sat'd.	S	S
Pickling baths (listed below)	-	-	Trichloroethylene	U	U
Sulfuric acid	S	S	Turpentine	O	U
Hydrochloric acid	S	S	Urea	S	S
Sulfuric-nitric	S	U	Urine	S	S
Pine oil	O	U	Vanilla extract	S	S
Plating solutions (listed below)	-	-	Vaseline	S	S
Brass	S	S	Vinegar com.	S	S
Cadmium	S	S	Wetting agents	S	S
Chromium	S	S	Whiskey	S	S
Copper	S	S	Wines	S	S
Gold	S	S	Xylene	U	U
Indium	S	S	Yeast	S	S
Lead	S	S	Zinc chloride sat'd.	S	S
Nickel	S	S	Zinc oxide	S	S
Rhodium	S	S	Zinc sulfate sat'd.	S	S

NOTE: The above information concerns general chemical resistance only. Since other factors such as permeation, ESCR, and container design are involved, full compatibility testing is recommended.