

## Chemical Resistance Chart for LDPE (Low Density Polyethylene)

The chemical resistance chart below is a general guide only.

| REAGENT                 | LDPE |      | REAGENT               | LDPE |      | REAGENT                  | LDPE |      |
|-------------------------|------|------|-----------------------|------|------|--------------------------|------|------|
|                         | 70°  | 140° |                       | 70°  | 140° |                          | 70°  | 140° |
| Acetone                 | B    | C    | Butyric Acid#         | C    | C    | Disodium Phosphate       | A    | A    |
| Acetaldehyde*           | B    | C    | Calcium Bisulphide    | A    | A    | Emulsions, Photographic* | A    | A    |
| Acetic Acid*            | A    | A    | Calcium Carbonate     | A    | A    | Ethyl Acetate#*          | B    | C    |
| Acetic Acid*            | A    | B    | Calcium Chlorate      | A    | A    | Ethyl Alcohol*           | A    | A    |
| Acetic Anhydride*       | C    | C    | Calcium Chloride      | A    | A    | Ethyl Alcohol*           | A    | A    |
| Air                     | A    | A    | Calcium Hydroxide     | A    | A    | Ethyl Benzene#*          | C    | C    |
| Aluminum Chloride       | A    | A    | Calcium Hypochloride  | A    | A    | Ethyl Chloride#          | C    | C    |
| Aluminum Fluoride       | A    | A    | Calcium Nitrate       | A    | A    | Ethyl Ether#             | C    | C    |
| Aluminum Sulphate       | A    | A    | Calcium Oxide         | A    | A    | Ethylene Chloride#*      | C    | C    |
| Alums                   | A    | A    | Calcium Sulphate      | A    | A    | Ethylene Glycol*         | A    | A    |
| Ammonia                 | A    | A    | Camphor Oil#*         | C    | C    | Fatty Acids*             | A    | A    |
| Ammonium Carbonate      | A    | A    | Carbon Dioxide        | A    | A    | Ferric Chloride          | A    | A    |
| Ammonium Chloride       | A    | A    | Carbon Disulphide     | C    | C    | Ferric Nitrate           | A    | A    |
| Ammonium Fluoride       | A    | A    | Carbon Monoxide       | A    | A    | Ferrous Chloride         | A    | A    |
| Ammonium Hydroxide      | A    | A    | Carbon Tetrachloride# | C    | C    | Ferrous Sulphate         | A    | A    |
| Ammonium Hydroxide      | A    | A    | Carbonic Acid         | A    | A    | Fish Solubles*           | A    | A    |
| Ammonium Nitrate        | A    | A    | Castor Oil* conc      | A    | A    | Fluoboric Acid           | A    | A    |
| Ammonium Persulphate    | A    | A    | Chlorine+             | B    | C    | Fluosillicic Acid        | A    | B    |
| Ammonium Sulphate       | A    | A    | Chlorine Liquid+      | C    | C    | Fluosillicic Acid        | A    | A    |
| Ammonium Metaphosphate  | A    | A    | Chlorine Water+       | A    | A    | Formic Acid              | A    | A    |
| Ammonium Sulfide        | A    | A    | Chlorobenzene#*       | C    | C    | Fructose                 | A    | A    |
| Amyl Acetate#*          | C    | C    | Chloroform#*          | C    | C    | Fruit Pulp*              | A    | A    |
| Amyl Alcohol#*          | A    | A    | Chlorosulphonic Acid  | C    | C    | Furtural#                | C    | C    |
| Amyl Chloride#          | C    | C    | Chrome Alum           | A    | A    | Furturyl Alcohol#*       | C    | C    |
| Aniline#*               | A    | C    | Chromic Acid          | -    | -    | Gallic Acid*             | A    | A    |
| Aqua Regia+             | C    | C    | Chromic Acid          | A    | B    | Gasoline#*               | C    | C    |
| Arsenic Acid            | A    | A    | Chromic Acid          | A    | A    | Glucose                  | A    | A    |
| Aromatic Hydrocarbons#* | C    | C    | Cider*                | A    | A    | Glycerine*               | A    | A    |
| Ascorbic Acid           | A    | A    | Citric Acid*          | A    | A    | Glycol*                  | A    | A    |
| Barium Carbonate        | A    | A    | Coconut Oil Alcohols* | A    | A    | Glycolic Acid*           | A    | A    |
| Barium Chloride         | A    | A    | Coffee                | A    | A    | Grape Sugar              | A    | A    |
| Barium Hydroxide        | A    | A    | Cola Concentrate*     | A    | A    | n-Heptane#*              | C    | C    |
| Barium Sulphate         | A    | A    | Copper Chloride       | A    | A    | Hexachlorobenzene        | A    | A    |
| Barium Sulphide         | A    | A    | Copper Cyanide        | A    | A    | Hexanol Tertiary*        | A    | A    |
| Beer                    | A    | A    | Copper Fluoride       | A    | A    | Hydrobromic Acid         | A    | A    |

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|----------------------|------|------|-------------------------|------|------|------------------------|------|------|
|                      | 70°  | 140° |                         | 70°  | 140° |                        | 70°  | 140° |
| Benzene#*            | C    | C    | Copper Nitrate          | A    | A    | Hydrochloric Acid      | A    | A    |
| Benzoic Acid         | A    | A    | Copper Sulphate         | A    | A    | Hydrochloric Acid      | A    | A    |
| Bismuth Carbonate    | A    | A    | Corn Oil*               | A    | A    | Hydrofluoric Acid*     | A    | A    |
| Bleach Lye           | A    | A    | Cottonseed Oil*         | A    | A    | Hydrogen 100%          | A    | A    |
| Borax                | A    | A    | Cuprous Chloride        | A    | A    | Hydrogen Chloride      | A    | A    |
| Boric Acid           | A    | A    | Detergents Synthetic*   | A    | A    | Hydrogen Peroxide      | A    | A    |
| Boron Trifluoride    | A    | A    | Developers Photographic | A    | A    | Hydrogen Peroxide      | A    | A    |
| Brine                | A    | A    | Dextrin                 | A    | A    | Hydrogen Sulphide      | A    | A    |
| Bromine+             | C    | C    | Dextrose                | A    | A    | Hydroquinone           | A    | A    |
| Bromine Water#       | C    | C    | Diazo Salts             | A    | A    | Hypochlorous Acid      | A    | A    |
| Butanediol*          | A    | A    | Dibutylphthalate*       | B    | B    | Inks*                  | A    | A    |
| Butanediol*          | A    | A    | Dichlorobenzene#*       | C    | C    | Iodine+                | B    | C    |
| Butanediol*          | A    | A    | Diethyl Ketone#*        | B    | C    | Isopropyl Alcohol      | A    | A    |
| Butter*              | A    | A    | Diethylene Glycol*      | A    | A    | Lead Acetate           | A    | A    |
| n-Butyl Acetate#*    | B    | C    | Diglycolic Acid*        | A    | A    | Lead Nitrate           | A    | A    |
| n-Butyl Alcohol*     | A    | A    | Dimethylamine           | C    | C    | Lactic Acid*           | A    | A    |
| Linseed Oil*         | B    | C    | Potassium Carbonate     | A    | A    | Sodium Sulphate        | A    | A    |
| Magnesium Carbonate  | A    | A    | Potassium Chlorate      | A    | A    | Sodium Sulphide        | A    | A    |
| Magnesium Chloride   | A    | A    | Potassium Chloride      | A    | A    | Sodium Sulphite        | A    | A    |
| Magnesium Hydroxide  | A    | A    | Potassium Chromate      | A    | A    | Stannic Chloride       | A    | A    |
| Magnesium Nitrate    | A    | A    | Potassium Cyanide       | A    | A    | Stannous Chloride      | A    | A    |
| Magnesium Sulphate   | A    | A    | Potassium Dichromate    | A    | A    | Starch Solution*       | A    | A    |
| Mercuric Chloride    | A    | A    | Potassium Ferri/Ferro   |      |      | Stearic Acid*          | A    | A    |
| Mercuric Cyanide     | A    | A    | Cyanide                 | A    | A    | Sulphuric Acid         | A    | A    |
| Mercury              | A    | A    | Potassium Fluoride      | A    | A    | Sulphuric Acid+        | A    | B    |
| Methyl Alcohol*      | A    | A    | Potassium Hydroxide     | A    | A    | Sulphuric Acid+        | A    | C    |
| Methylethyl Ketone#* | B    | C    | Potassium Nitrate       | A    | A    | Sulphuric Acid+        | B    | C    |
| Methylene Chloride#* | C    | C    | Potassium Perborate     | A    | A    | Sulphuric Acid+        | B    | C    |
| Milk                 | A    | A    | Potassium Perchlorate   | A    | A    | Sulphuric Acid+        | C    | C    |
| Mineral Oils#        | B    | C    | Potassium Permanganate  | A    | A    | Sulphurous Acid        | A    | A    |
| Molasses             | A    | A    | Potassium Persulphate   | A    | A    | Tallow#                | A    | B    |
| Naphtha#*            | B    | C    | Potassium Sulphate      | A    | A    | Tannic Acid*           | A    | A    |
| Naphthalene#*        | C    | C    | Potassium Sulphide      | A    | A    | Tartaric Acid          | A    | A    |
| Nickel Chloride      | A    | A    | Potassium Sulphite      | A    | A    | Tetrohydrofuran#*      | C    | C    |
| Nickel Nitrate       | A    | A    | Propargyl Alcohol*      | A    | A    | Titanium Tetrochloride | C    | C    |
| Nickel Sulphate      | A    | A    | n-Propyl Alcohol*       | A    | A    | Toluene#*              | C    | C    |
| Nicotine* dilute     | A    | A    | Propylene Dichloride#*  | C    | C    | Trichloroethylene#*    | C    | C    |
| Nitric Acid          | A    | A    | Propylene Glycol*       | A    | A    | Triethylene Glycol*    | A    | A    |

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|------------------------|------|------|-----------------------|------|------|---------------------|------|------|
|                        | 70°  | 140° |                       | 70°  | 140° |                     | 70°  | 140° |
| Nitric Acid+           | A    | B    | Pyridine*             | A    | -    | Trisodium Phosphate | A    | A    |
| Nitric Acid+           | A    | B    | Resorcinol            | A    | A    | Turpentine#         | C    | C    |
| Nitric Acid+           | C    | C    | Salicylic Acid        | A    | A    | Urea                | A    | A    |
| Nitrobenzene#*         | C    | C    | Sea Water             | A    | A    | Urine               | A    | A    |
| n-Octane               | A    | A    | Selenic Acid          | A    | A    | Vanilla Extract*    | A    | A    |
| Oleic Acid             | B    | C    | Shortening*           | A    | A    | Vinegar             | A    | A    |
| Oxalic Acid*           | A    | A    | Sliver Nitrate Sol'n  | A    | A    | Water               | A    | A    |
| Perchloroethylene#     | C    | C    | Soap Solutions*       | A    | A    | Wetting Agents*     | A    | A    |
| Phosphoric Acid        | A    | B    | Sodium Acetate        | A    | A    | Whiskey*            | A    | A    |
| Photographic Solutions | A    | A    | Sodium Benzoate       | A    | A    | Wines*              | A    | A    |
| Plating Solutions*     |      |      | Sodium Biscarbonate   | A    | A    | Xylene#             | C    | C    |
| Brass                  | A    | A    | Sodium Bisulphate     | A    | A    | Yeast               | A    | A    |
| Cadmium                | A    | A    | Sodium Bisulphite     | A    | A    | Zinc Bromide        | A    | A    |
| Chromium               | A    | A    | Sodium Borate         | A    | A    | Zinc Carbonate      | A    | A    |
| Copper                 | A    | A    | Sodium Bromide dilute | A    | A    | Zinc Chloride       | A    | A    |
| Gold                   | A    | A    | Sodium Carbonate      | A    | A    | Zinc Oxide          | A    | A    |
| Indium                 | A    | A    | Sodium Chlorate       | A    | A    | Zinc Stearate       | A    | A    |
| Lead                   | A    | A    | Sodium Chloride       | A    | A    | Zinc Sulphate       | A    | A    |
| Nickel                 | A    | A    | Sodium Cyanide        | A    | A    |                     |      |      |
| Rhodium                | A    | A    | Sodium Dichromate     | A    | A    |                     |      |      |
| Sliver                 | A    | A    | Sodium Ferri/Ferro    |      |      |                     |      |      |
| Tin                    | A    | A    | Cyanide               | A    | A    |                     |      |      |
| Zinc                   | A    | A    | Sodium Fluoride       | A    | A    |                     |      |      |
| Potassium Bicarbonate  | A    | A    | Sodium Hydroxide      | A    | A    |                     |      |      |
| Potassium Bromide      | A    | A    | Sodium Hypochlorite   | A    | A    |                     |      |      |
| Potassium Bromate      | A    | A    | Sodium Nitrate        | A    | A    |                     |      |      |

## Codes

**A** Resistant no indication that serviceability would be impaired.

**B** Variable resistance, depending on conditions of use.

**C** Unresistant, not recommended for service applications under any conditions.- Information not available.

- Information not available.

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