

# TUBING

# PLASTIC PIPE

## CORROSION RESISTANCE VALUES

### for Plastic Tubing

Ratings based on tests at 70°F and should not be exposed to higher temperature without testing

**F**-5000 Poly Vinyl Chloride

**U**-2000 Polyurethane

**E**-1000 Low Density Polyethylene

**N**-6000 Nylon

**P**-1100 Polypropylene

**D**-4000 EVA

**T**-7000 Teflon

**U**-8000 Special Plasticizers PVC

**G**-Good

**L**-Limited

**P**-Poor

**N**-Not Tested

| FUELS:                            | F | U | E | N | P | D | T | U | ACIDS & BASES                 | F | U | E | N | P | D | T |
|-----------------------------------|---|---|---|---|---|---|---|---|-------------------------------|---|---|---|---|---|---|---|
| Butane (1).....                   | G | G | L | G | L | G | G | N | Acetic, 50%.....              | G | P | P | L | G | P | G |
| Diesel Fuel.....                  | L | G | L | G | L | P | N | G | Boric.....                    | G | G | G | G | G | G | G |
| Gasoline (regular).....           | L | G | P | G | L | N | G | G | Carbolic (phenol).....        | P | P | G | P | G | P | N |
| Kerosene.....                     | L | G | P | G | G | P | G | G | Fatty.....                    | G | G | P | G | G | N | G |
| Methane (nat. gas)(1).....        | G | G | L | G | G | N | N | N | Formic, 90%.....              | G | P | G | P | G | G | G |
| Propane (1).....                  | G | G | L | G | L | N | N | N | Hydrochloric, 10%.....        | G | G | G | L | G | G | G |
| OTHERS:                           |   |   |   |   |   |   |   |   | Hydrochloric, 25%.....        | G | L | G | P | G | L | G |
| Acetylene.....                    | N | G | G | G | G | N | N | N | Hydrochloric, 50%.....        | G | L | G | P | G | L | G |
| Ammonia gas.....                  | P | G | G | G | G | G | N | N | Hydrocyanic, 50%.....         | L | P | G | P | G | G | G |
| Ammonium salts.....               | G | G | G | G | G | G | N | N | Maleic.....                   | G | P | G | G | G | N | N |
| Amyl acetate.....                 | P | P | L | G | P | P | G | N | Nitric, 10%.....              | G | P | G | L | G | L | G |
| Aniline.....                      | P | P | L | L | G | P | G | N | Nitric, 30%.....              | G | P | G | P | L | L | G |
| Animal oils.....                  | G | G | P | G | G | N | G | G | Oleic.....                    | L | G | L | G | G | P | N |
| Bleach, 7%.....                   | G | P | G | L | L | N | N | G | Phosphoric, 25%.....          | G | L | G | G | G | G | N |
| Bromine.....                      | L | G | P | P | P | P | N | N | Sulfuric, 30%.....            | G | L | G | L | G | L | G |
| Butandiol.....                    | G | G | G | G | G | N | N | N | Sulfuric, 70%.....            | L | P | P | P | P | G | G |
| Calcium salts incl. Chloride..... | G | G | G | G | G | N | G | G | Sulfuric, 98%.....            | P | P | P | P | G | P | G |
| Chlorine gas, dry.....            | G | G | P | P | P | P | N | N | Sulfurous, 30%.....           | G | P | G | L | G | N | G |
| Dibutyl phthalate.....            | N | P | L | G | L | P | N | G | Tannic.....                   | G | P | G | G | G | N | G |
| Glucose.....                      | G | G | G | G | G | G | G | G | Ammonium hydroxide, 25%.....  | P | G | L | G | G | G | N |
| Glycerine.....                    | G | G | G | G | G | G | N | G | Potassium hydroxide, 25%..... | L | G | G | G | G | G | G |
| Hydrogen peroxide 10%.....        | G | G | G | G | G | G | G | G | Sodium hydroxide, 50%.....    | G | G | G | G | G | L | G |
| Hydrogen peroxide 25%.....        | L | G | G | P | G | G | G | G | SOLVENTS:                     |   |   |   |   |   |   |   |
| Hydrogen sulfide.....             | G | P | G | L | G | N | G | N | Acetone.....                  | P | P | G | G | L | P | G |
| Isocyanates.....                  | N | G | G | G | N | P | N | N | Benzene.....                  | P | L | P | G | P | P | G |
| Lead salts (3).....               | G | G | G | G | G | N | N | N | Carbon tetrachloride.....     | P | L | L | L | P | P | G |
| Magnesium salts.....              | G | G | G | G | G | N | G | N | Chloroform.....               | P | P | P | L | P | P | G |
| Mercury.....                      | G | G | G | G | G | G | N | N | Cyclohexanone.....            | P | P | P | G | L | P | G |
| Milk.....                         | G | G | G | G | G | G | N | G | Dimethylformamide.....        | P | P | L | N | G | N | N |
| Mineral Oil.....                  | G | G | L | G | L | P | G | G | Dioxane.....                  | N | N | P | G | L | N | N |
| Nitrous Oxide (1).....            | G | G | L | G | G | N | N | N | Ethyl acetate.....            | P | L | G | G | L | P | G |
| Oxygen (1).....                   | G | G | G | G | G | G | G | G | Ethyl alcohol (1).....        | L | G | G | L | G | G | G |
| Ozone, ambient.....               | G | G | L | G | L | N | N | G | Ethyl ether.....              | L | L | G | G | L | P | N |
| Paint, oil base.....              | L | G | L | G | G | N | N | G | Ethylene glycol.....          | G | G | G | G | G | G | N |
| Polyglycols.....                  | G | G | G | G | G | N | N | N | Formaldehyde.....             | G | G | G | G | G | L | N |
| Potassium salts.....              | G | G | G | G | G | N | G | N | Freon - 12'.....              | L | L | G | G | L | N | G |
| Pydraul.....                      | P | P | P | G | N | N | N | N | Methyl alcohol.....           | L | G | G | L | G | N | N |
| Pyridine.....                     | P | L | G | L | G | N | G | N | Methylene chloride.....       | P | P | L | G | L | P | N |
| Salt Water.....                   | G | G | G | G | G | G | G | G | Methyl ethyl ketone.....      | P | P | G | G | L | P | N |
| Silver Nitrate.....               | G | G | G | G | G | G | G | N | Naphthas (2).....             | P | G | P | G | L | P | G |
| Skydrol.....                      | P | P | P | G | N | N | N | N | Toluene.....                  | P | G | P | G | L | P | N |
| Soap solution (conc.).....        | G | G | L | G | G | N | G | G | Triclorethylene.....          | P | P | P | L | P | P | G |
| Sodium salts.....                 | G | G | G | G | G | N | G | G | Turpentine.....               | G | G | P | G | L | P | G |
| Sodium thiosulphate.....          | G | G | G | G | G | N | G | G | Xylene.....                   | P | G | P | G | L | P | N |
| Styrene.....                      | P | G | P | G | N | N | N | G | HYDRAULIC FLUIDS:             |   |   |   |   |   |   |   |
| Trisodium phosphate.....          | G | G | N | G | G | N | N | G | Diester base grease.....      | N | G | P | G | L | P | N |
| Ucon oil.....                     | G | G | G | G | N | N | N | N | Petroleum base grease.....    | G | G | L | G | L | P | N |
| Urea.....                         | G | G | G | G | G | N | G | G | Phosphate ester.....          | L | P | P | G | G | N | N |
| Vegetable oils (1).....           | G | G | G | G | G | P | N | G | Polyol ester.....             | P | N | P | G | G | N | N |
| Water at 730F.....                | G | G | G | G | G | G | G | G | Water-glycol.....             | G | G | G | G | G | N | N |
| Water at 1400F.....               | L | G | G | G | G | G | G | G | SAE motor oils.....           | G | G | G | G | G | N | N |
| Water at 1700F.....               | P | L | N | L | G | P | N | G | Machine oil.....              | G | G | L | G | L | N | N |
| Whiskey, wine (1).....            | N | G | G | G | G | N | G | G | MIL-L-7808 H.....             | G | G | L | G | G | N | N |
| Zinc Chloride.....                | G | G | G | G | G | G | N | N | Brake Fluid.....              | N | N | N | N | N | N | N |

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