# General Thermoplastic Chemical Resistance Guide

| Material Handled | PVC 68 | PVC 150 | PVC/PU Blend 68 | PVC/PU Blend 125 | Rubber Blend 68 | Rubber Blend 150 | EVA 68 | EVA 150 | TPU 68 | TPU 150 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Temperature (°F) | | | | | | | | | |
| Chlorobenzene | U | U | U | U | U | U | U | U | U | U |
| Chloroform | U | U | U | U | U | U | U | U | U | U |
| Chlorsulfonic Acid | C | U | C | U | U | U | U | U | U | U |
| Chrome Alum | E | E | E | E | G | G | E | G | E | E |
| Chromic Acid 10% | G | C | G | C | G | C | G | – | U | U |
| Chromic Acid 25% | G | C | G | C | G | C | G | – | U | U |
| Chromic Acid 30% | C | U | C | U | C | U | C | U | U | U |
| Chromic Acid 40% | C | U | C | U | C | U | C | U | U | U |
| Chromic Acid 50% | C | U | C | U | C | U | C | U | U | U |
| Chromic Acid Plating Solution | – | – | – | – | – | – | E | E | U | U |
| Cider | E | C | – | – | – | – | E | C | – | – |
| Citric Acid | E | E | E | E | E | E | E | E | U | U |
| Coal Tar | U | U | U | U | U | U | U | U | U | U |
| Coconut Oil | G | C | E | G | G | C | C | U | E | E |
| Copper Chloride | E | E | E | E | E | E | E | – | E | E |
| Copper Cyanide | E | E | E | E | E | E | E | – | – | – |
| Copper Fluoride 2% | E | E | E | E | E | E | E | – | E | E |
| Copper Nitrate | E | G | E | E | E | G | E | – | E | E |
| Copper Sulfate | E | G | E | E | E | E | E | – | E | E |
| Corn Oils | E | G | – | – | – | – | – | – | – | – |
| Cottonseed Oil | G | C | E | E | E | G | E | – | E | E |
| Cresote | U | U | U | U | U | U | U | U | – | – |
| Cresol | U | U | – | – | U | U | U | U | C | U |
| Cresylic Acid 50% | U | U | C | C | U | U | U | U | U | U |
| Crude Oil - Sour | C | U | C | U | U | U | U | U | E | E |
| Crude Oil - Sweet | C | U | C | U | U | U | U | U | E | E |
| Cyclohexane | U | U | U | U | C | U | C | U | G | C |
| Cyclohexanol | U | U | U | U | C | U | E | C | C | U |
| Cyclohexanone | U | U | U | U | U | U | E | C | U | U |
| Demineralized Water | E | E | E | E | E | E | E | E | E | C |
| Dextrin | E | E | E | E | E | E | E | – | E | E |
| Dextrose | E | G | – | – | E | E | E | – | E | E |
| Di-acetone Alcohol | – | – | – | – | – | – | – | – | – | – |
| Diazo Salts | E | E | E | E | E | G | E | – | – | – |
| Dichlorobenzene | U | U | U | U | – | – | U | U | – | – |
| Diesel Oils | C | U | C | U | – | – | – | – | G | C |
| Diethyl Ether | U | U | U | U | – | – | U | U | G | C |
| Diethylene Glycol | G | C | G | C | E | C | G | C | U | U |
| Diglycolic Acid | E | G | E | E | E | G | E | – | – | – |
| Di-isodecyl Phthalate | U | U | – | – | – | – | – | – | – | – |
| Dimethylamine | U | U | U | U | U | U | U | U | U | U |
| Dioctyl Phthalate | U | U | U | U | – | – | G | U | – | – |
| Disodium Phosphate | E | E | E | E | E | E | E | – | E | E |
| Distilled Water | E | E | E | E | E | E | E | E | E | C |
| Ethers | U | U | C | U | U | U | U | U | G | C |
| Ethyl Acetate | U | U | C | U | C | U | C | U | C | U |
| Ethyl Acrylate | U | U | U | U | – | – | – | – | – | – |
| Ethyl Alcohol 0 - 50% | G | C | E | G | G | C | G | C | G | C |
| Ethyl Alcohol 50%-98% | C | U | G | C | C | U | C | U | E | G |
| Ethyl Chloride | U | U | U | U | U | U | U | U | U | U |
| Ethyl Ether | U | U | U | U | U | U | U | U | G | C |
| Ethylene Bromide | E | U | U | U | U | U | U | U | U | U |
| Ethylene Dichloride | U | U | U | U | U | U | U | U | U | U |
| Ethylene Glycol | E | E | E | E | E | G | E | G | G | C |
| Ethylene Oxide | U | U | U | U | U | U | U | U | U | U |
| Fatty Acids | E | E | E | E | G | C | C | U | G | C |
| Ferric Chloride | E | E | E | E | E | E | E | – | E | E |
| Ferric Nitrate | E | E | E | E | E | E | E | – | E | E |
| Ferric Sulfate | E | E | E | E | E | E | E | – | E | E |
| Ferrous Chloride | E | E | E | E | E | E | E | – | E | E |
| Ferrous Sulfate | E | E | E | E | E | E | E | – | E | E |
| Fish Solubles | E | E | E | U | E | E | E | – | E | g |
| Fluorine Gas - Dry | U | U | U | U | U | U | U | U | U | U |
| Fluorine Gas - Wet | U | U | U | U | U | U | U | U | U | U |
| Fluoroboric Acid | E | E | E | E | E | E | E | – | E | E |
| Fluorosilicic Acid | E | E | E | E | G | C | G | – | U | U |
| Foric Acid | E | C | E | C | E | G | E | E | U | U |
| Fomaldehyde (40% aqueouse) | U | U | G | G | G | C | E | G | – | – |

| Material Handled | PVC 68 | PVC 150 | PVC/PU Blend 68 | PVC/PU Blend 125 | Rubber Blend 68 | Rubber Blend 150 | EVA 68 | EVA 150 | TPU 68 | TPU 150 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Temperature (°F) | | | | | | | | | |
| Formic Acid 3% | – | – | – | – | – | – | E | E | – | – |
| Formic Acid 10% | – | – | – | – | – | – | E | E | – | – |
| Formic Acid 25% | – | – | – | – | – | – | E | E | – | – |
| Formic Acid 50% | – | – | – | – | – | – | E | E | – | – |
| Formic Acid 100% | – | – | – | – | – | – | U | U | – | – |
| Freon-12 | C | U | G | C | G | C | G | – | E | E |
| Fructose | E | E | – | – | E | E | E | – | E | E |
| Fruit Pulps & Juices | E | E | – | – | E | E | E | – | E | E |
| Fuel Oil | G | C | G | C | U | U | U | U | E | G |
| Furfural | U | U | U | U | U | U | U | U | U | U |
| Furfuryl Alcohol | – | – | – | – | – | – | U | U | – | – |
| Gallic Acid | E | E | E | E | E | E | E | – | – | – |
| Gas - Coke Oven | G | G | G | G | – | – | – | – | G | G |
| Gas - Natural (dry) | C | C | C | C | U | U | U | U | C | C |
| Gas - Natural (wet) | C | C | C | C | U | U | U | U | C | C |
| Gasoline | U | U | U | U | U | U | – | – | E | G |
| Gasoline - Refined | C | U | G | U | C | U | U | U | E | G |
| Gasoline - Sour | C | U | G | U | U | U | U | U | E | G |
| Gelatine | E | E | E | E | E | E | E | – | E | E |
| Glucose | E | E | E | E | E | E | E | – | E | E |
| Glycerine (glycerol) | E | E | E | E | E | E | E | – | E | E |
| Glycol | E | E | E | E | E | E | E | – | G | G |
| Glycolic Acid 30% | E | E | E | E | E | E | E | – | U | U |
| Grease | E | C | E | G | – | – | – | – | E | G |
| Green Liquor (paper industry) | E | E | E | E | E | E | E | – | – | – |
| Heptane | C | U | G | U | U | U | U | U | E | – |
| Hexadecanol | – | – | – | – | – | – | U | U | – | – |
| Hexane | C | U | C | U | G | C | – | – | – | – |
| Hexanol, Tertiary | C | U | C | U | G | C | C | U | G | – |
| Hydrobromic Acid 20% | E | G | E | G | G | G | G | – | U | U |
| Hydrochloric Acid 10% | E | G | E | G | E | E | E | E | U | U |
| Hydrochloric Acid 48% | E | G | E | G | E | G | G | – | U | U |
| Hydrofluoric Acid 4% | G | G | G | G | G | G | E | E | U | U |
| Hydrofluoric Acid 10% | G | C | G | C | G | G | E | E | U | U |
| Hydrofluoric Acid 48% | G | U | G | C | G | C | E | E | U | U |
| Hydrofluoric Acid 60% | G | U | G | U | G | C | E | E | U | U |
| Hydrofluorosilic Acid | G | C | G | C | – | – | – | – | U | U |
| Hydrogen | C | C | C | C | C | C | C | – | C | C |
| Hydrogen Bromide (dry) | – | – | – | – | – | – | E | E | – | – |
| Hydrogen Chloride (dry) | – | – | – | – | – | – | E | E | – | – |
| Hydrogen Cyanide | C | C | C | C | C | C | C | C | U | U |
| Hydrogen Peroxide 3 - 12% | E | G | E | G | G | C | G | C | G | C |
| Hydrogen Peroxide 30% | E | G | E | G | G | C | G | C | G | C |
| Hydrogen Peroxide 50% | E | C | E | C | C | U | U | U | C | U |
| Hydrogen Peroxide 90% | U | U | U | U | U | U | U | U | U | U |
| Hydrogen Phosphide | E | C | E | C | G | G | E | E | – | – |
| Hydrogen Sulfide (aqueous solution) | E | E | E | E | E | G | E | – | – | – |
| Hydrogen Sulfide - Dry | E | E | E | E | E | G | E | – | – | – |
| Hydrombromic Acid 20% | E | G | E | G | G | G | G | – | U | U |
| Hydroquinone | E | E | E | E | E | E | E | – | E | E |
| Hypochlorous Acid | E | E | E | E | E | G | C | U | C | U |
| Inks | – | – | – | – | – | – | E | E | – | – |
| Iodine (in alcohol) | U | U | U | U | U | U | U | U | U | U |
| Iso-octane | C | U | C | U | – | – | – | – | – | – |
| Isopropyl Acetate | U | U | – | – | – | – | – | – | – | – |
| Isopropyl Alcohol | E | G | E | G | E | E | E | – | – | – |
| Jelly | E | E | – | – | – | – | – | – | – | – |
| Jet Fuels JP 3,4,5 | U | U | U | U | U | U | – | – | G | C |
| Kerosene | U | U | C | U | U | U | U | U | E | G |
| Ketones | U | U | U | U | C | U | C | U | G | C |
| Kraft Liquor (paper industry) | E | E | E | E | E | G | G | – | – | – |
| Lacquer Thinners | U | U | U | U | G | C | C | U | G | – |
| Lactic Acid 28% | E | E | E | E | E | E | E | – | C | U |
| Lard Oil | E | G | E | E | G | C | G | C | E | G |
| Lauric Acid | E | E | E | E | – | – | – | – | C | U |
| Lauryl Chloride | E | E | E | E | C | U | C | – | E | G |

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