

PEEK Chemical Compatibility & Resistance Chart

Explanation of Footnotes

1. Satisfactory to 72°F (22°C)
2. Satisfactory to 120°F (48°C)

Ratings -- Chemical Effect

- **A = Excellent.**
- **B = Good** -- Minor Effect, slight corrosion or discoloration.
- **C = Fair** -- Moderate Effect, not recommended for continuous use. Softening, loss of strength, swelling may occur.
- **D = Severe Effect**, not recommended for ANY use.
- **N/A = Information not available.**

Chemical	Compatibility
Acetaldehyde	A-Excellent
Acetic Acid	A-Excellent
Acetic Acid 20%	A-Excellent
Acetic Acid 80%	A-Excellent
Acetic Acid, Glacial	A-Excellent
Acetone	A-Excellent
Alcohols: Butyl	A-Excellent
Alcohols: Ethyl	A-Excellent
Alcohols: Isopropyl	A-Excellent
Alcohols: Methyl	A-Excellent
Alcohols: Propyl	A-Excellent
Ammonia 10%	A-Excellent
Ammonium Hydroxide	A-Excellent
Aqua Regia (80% HCl, 20% HNO ₃)	C-Fair
Aromatic Hydrocarbons	A-Excellent
Benzene	A-Excellent
Benzoic Acid	A-Excellent
Boric Acid	A-Excellent
Bromine	C-Fair
Butanol (Butyl Alcohol)	A-Excellent
Calcium Hydroxide	A-Excellent
Chlorine, Anhydrous Liquid	C-Fair
Chloroacetic Acid	A-Excellent
Chloroform	A-Excellent
Cyclohexane	A-Excellent
Cyclohexanone	A-Excellent
Diethylamine	A-Excellent
Ethanol	A-Excellent
Ether	A-Excellent
Ethyl Acetate	A-Excellent
Ethylene Glycol	A-Excellent
Heptane	A-Excellent
Hexane	A-Excellent

Hydrobromic Acid 100%	C-Fair
Hydrobromic Acid 20%	C-Fair
Hydrochloric Acid 100%	C-Fair
Hydrochloric Acid 20%	A-Excellent
Hydrofluoric Acid 100%	C-Fair
Hydrogen Peroxide 10%	A-Excellent
Hydrogen Peroxide 100%	A-Excellent
Hydrogen Peroxide 50%	A-Excellent
Isooctane	A-Excellent
Ketones	A-Excellent
Methanol (Methyl Alcohol)	A-Excellent
Methyl Ethyl Ketone	A-Excellent
Methylene Chloride	A-Excellent
Nitric Acid (20%)	A-Excellent
Nitric Acid (Concentrated)	C-Fair
Pentane	A-Excellent
Perchloric Acid	A-Excellent
Phenol (10%)	A-Excellent
Phenol (Carbolic Acid)	C-Fair
Phosphoric Acid (<40%)	A-Excellent
Phosphoric Acid (>40%)	A-Excellent
Potassium Hydroxide (Caustic Potash)	A-Excellent
Pyridine	A-Excellent
Sodium Hydroxide (20%)	A-Excellent
Sodium Hydroxide (50%)	A-Excellent
Sodium Hydroxide (80%)	A-Excellent
Sulfuric Acid (<10%)	A-Excellent
Sulfuric Acid (10-75%)	A-Excellent
Sulfuric Acid (75-100%)	C-Fair
Tetrahydrofuran	A-Excellent
Toluene (Toluol)	A-Excellent
Trichloroacetic Acid	A-Excellent
Trichloroethane	A-Excellent
Trichloroethylene	A-Excellent
Water, Distilled	A-Excellent
Water, Fresh	A-Excellent
Xylene	A-Excellent

WARNING

The information in this chart has been supplied by reputable sources and is to be used ONLY as a guide in selecting equipment for appropriate chemical compatibility. Before permanent installation, test the equipment with the chemicals and under the specific conditions of your application.

Ratings of chemical behavior listed in this chart apply at a 48-hr exposure period. There exists no specific knowledge of possible effects beyond this period. There exists no warranty (neither express nor implied) that the information in this chart is accurate or complete or that any material is suitable for any purpose.

DANGER

Variations in chemical behavior during handling due to factors such as temperature, pressure, and concentrations can cause equipment to fail, even though it passed an initial test.

SERIOUS INJURY MAY RESULT

Use suitable guards and/or personal protections when handling chemicals.

Last Modified December 11, 2015