

Chemical Resistance Chart

	% AT 23°C	ACETAL	ACETAL MAX	ACRYLIC	HDPE	NYLON	NYLON G NYLON MAX	PE100	PEEK	PETP	PETP MAX	POLYCARBONATE	POLYPROPYLENE	POLYURETHANE	PTEE	PVC	UHMWPE	UHMWPE ECO	UHMWPE MAX
ACETIC ACID	10	?	?	×		?	?		✓	✓	✓	×	✓	?	✓	✓	✓	✓	✓
ACETONE	5	✓	✓	×	✓	✓	✓		✓	✓	✓	×	✓		✓	×	✓	✓	✓
AMMONIA SOLUTION	10	✓	✓	✓	✓	?	?		?	×	×	×	✓		✓	×	✓	✓	✓
BENZENE	100	?	?	×	✓	✓	×		✓	✓	✓	?	?	×	✓	×	?	?	?
BITUMEN	100	✓	✓			?	?			✓	✓				✓		✓	✓	✓
BLEACH		×	×			×	✓		✓	✓	✓	×	?		✓		✓	✓	✓
BORIC ACID	10	?	?		✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓
BRAKE FLUID		✓	✓		✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓
BUTANOL	100	✓	✓		✓	?	?		✓	✓	✓	✓	?		✓		✓	✓	✓
BUTYL ACETATE		✓	✓		✓	✓	✓		✓	✓	✓	✓	?		✓		✓	✓	✓
CARBON TETRACHLORIDE		✓	✓		×	✓	✓		✓	✓	✓	✓	×		✓		✓	✓	✓
CALCIUM CHLORIDE		✓	✓		✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓
CALCIUM HYPOCHLORITE		✓	✓	×	✓	×	×		✓	✓	✓	✓	✓		✓		✓	✓	✓
CAUSTIC SODA	10	✓	✓		✓	✓	✓		✓	?	?	✓	✓		✓		✓	✓	✓
CITRIC ACID	10	✓	✓	✓	✓	?	?		✓	✓	✓	✓	✓	×	✓	×	✓	✓	✓
CHLOROFORM		✓	✓	✓	×	✓	✓		✓	✓	✓	✓	✓		✓	×	✓	✓	✓
DIESEL		✓	✓	✓	✓	✓	✓		✓	✓	✓	?	✓		✓		✓	✓	✓
EDIBLE OILS		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓
FORMALDEHYDE	25	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	×	✓		✓	✓	✓
FORMIC ACID	5	×	×	×	✓	✓	✓		?	?	?	✓	✓		✓		✓	✓	✓
FRUIT JUICE		✓	✓	✓	✓	?	?		✓	✓	✓	✓	✓		✓		✓	✓	✓
GLYCERINE		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓
GLYCOL	100	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓
HYDROCHLORIC ACID	0.4	×	×	✓	✓	×	×		✓	✓	✓	✓	✓		✓		✓	✓	✓
HYDROFLUORIC ACID	4	×	×	×	?	×	×		×	?	?	×	✓		✓		✓	✓	✓
HYDROGEN PEROXIDE	30	?	?	✓	✓	×	×		✓	✓	✓	✓	✓		✓		✓	✓	✓
KEROSENE		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓
ISOPROPYL ALCOHOL		✓	✓	✓	✓	✓	✓		✓	?	?	✓	?		✓		✓	✓	✓
LACTIC ACID	10	?	?	✓	✓	×	×		✓	✓	✓	✓	✓		✓		✓	✓	✓
LINSEED OIL		✓	✓		?	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓
METHANOL		✓	?	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓
METHYL ETHYL KETONE		?	?	×	×	✓	✓		✓	✓	✓	✓	✓	×	✓	×	✓	?	?
METHYLENE CHLORIDE		×	×	✓	✓	?	?		✓	×	×	×	✓	×	✓	×	✓	?	?
MILK		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓
NITRIC ACID	10	?	?	×	×	×	×		✓	?	?	?	?		✓		?	?	?
OZONE	100	×	×	×	×	×	×		✓	✓	✓	✓	✓		✓		✓	✓	✓
PARAFFIN OIL		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓
PETROL		?	?	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓
PHENOL	75	×	×	×	✓	×	×		×	×	×	×	?		✓		✓	✓	✓
PHOSPHORIC ACID	3	✓	✓	✓	✓	×	×		✓	×	×	×	?		✓		✓	✓	✓
POTASSIUM CHLORIDE	10	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓
PROPANE		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓
SOAP SOLUTIONS		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓
SODIUM BICARBONATE	50	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	?		✓		✓	✓	✓
SODIUM HYPOCHLORITE		×	×	✓	✓	×	×		✓	✓	✓	✓	✓		✓		✓	✓	✓
SODIUM NITRATE	50	?	?	✓	✓	?	?		✓	?	?	✓	✓		✓		✓	✓	✓
SULPHUR DIOXIDE		×	×	✓	✓	×	×		✓	✓	✓	✓	✓		✓		✓	✓	✓
SULPHURIC ACID	2	×	×	×	✓	×	×		✓	✓	✓	✓	✓		✓		✓	✓	✓
TAR		✓	✓	✓	✓	?	?		✓	✓	✓	✓	✓		✓		✓	✓	✓
TOLUENE		×	×	×	×	?	?		✓	✓	✓	✓	?		✓	×	×	×	×
TRICHLOROETHYLENE		×	×	✓	✓	✓	✓		✓	?	?	×	×		✓	×	?	?	?
TURPENTINE		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	×	✓	×	?	?	?
WATER		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓
VINEGAR		?	?	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓
XYLENE		×	×	×	×	×	×		✓	✓	✓	✓	✓		✓	×	?	?	?
ZINC CHLORIDE	10	×	×	✓	✓	×	×		✓	✓	✓	✓	✓		✓	×	?	?	?

✓ NO ATTACK, POSSIBLE SLIGHT ABSORPTION, LITTLE EFFECT ON MECHANICAL PROPERTIES
 ✗ MODERATE ATTACK, MATERIAL WILL DECOMPOSE, NOT RECOMMENDED
 ? SLIGHT ATTACK, SOME SWELLING, REDUCTION IN MECHANICAL PROPERTIES
 ? THE ABOVE IS A GUIDE ONLY, PLEASE CHECK AND CONFIRM WITH A KOMAX REPRESENTATIVE. CHART IS FOR MATERIALS USED AT 23°C. HIGHER TEMPERATURES WILL HAVE SIGNIFICANT IMPACT ON CHEMICAL RESISTANCE.