

Chemical Name	Rating*
2 - butanone	A
Acetic acid	A
Acetylene	A
Alkalines	NR
Ammonia	NR
Amyl chloride	A
Aniline	A
Aqua Regia	A
Benzaldehyde or Benzotrile	A
Benzenesulfonic Acid	A
Bromine	A
Calcium Hypochlorite	A
Camphor Oil or Carbon Sulfide	A
Carbon Tetrachloride	A
Chloral Hydrate or Chloroacetic Acid	A
Chlorine or Bleaching Agents	NR
Chloroform or Chorosulfonic acid	A
Chromic Acid	A
Concentrated Oxidizing Acids	A
Creosote or Cresol	A
Decalin or Dichlorobenzene	A
Diethyl Ether or Dimethylamine	A
Dimethyl Sulfoxide	A
Ethyl Acetate	A
Ethylene & Propylene Dichloride	A
Ferric Chloride	A
Ferric Nitrate	A
Ferric Sulfate	A
Ferrous Sulfate	A
Fluoboric Acid	A
Fluorinating Agents, Strong	NR
Fluorine > 140°F & Dry Gas > 250°F	NR
Fluosilicic Acid	A
Hydrobromic Acid	A

Chemical Name	Rating
Hydrochloric Acid	NR
Hydrocyanic Acid	A
Hydrofluoric Acid	NR
Hydrofluosilicic Acid	A
Hydrogen Fluoride, Dry > 250°F	NR
Hydrogen Peroxide	A
Hydrogen Sulfide, Moist	A
Hydroxides	NR
Mercury or Silver Salts	A
Methyl Chloride or MEK	A
Molten Alkali Metals	NR
Molten Anhydrous Bases	NR
Nitric Acid	NR
Nitro Benzene	A
Oleum	A
P-dioxane or Phenol	A
Partly Halogenated Hydrocarbons	A
Phosphoric Acid	A
Potassium Chlorate	A
Potassium or Sodium Cyanide	A
Potassium Dichromate or Nitrate	A
Potassium Hydroxide	NR
Sodium Chlorate	A
Sodium Hydroxide	NR
Sodium Nitrate	A
Stannous Chloride	A
Sulfur Dioxide, 5% + H ₂ O	A
Sulfur, Molten	A
Sulfuric acid	A
Tetralin or Trichlorethylene	A
Toluene	A
Trifluoroacetic Acid	A
Xylene	A
Zinc Chloride	A

Inorganic Acids	%*	Temp. (°C)	Results
Hydrochloric Acid (HCL)	100	R.T.	No effect.

*Ratings: A = Acceptable

NR = Not Recommended

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RULON J Chemical Resistance Data

	10	R.T.	No effect.
Hydrofluoric Acid (HF)	60	R.T.	Dielectric strength weakened. No other effect.
Nitric Acid (HNO ₃)	All	R.T.	Severe attack. Leaches out filler. Lower density and dielectrics. Tensile strength and elongation retained. (100%, 40%, & 10% conc. tested)
Hydrobromic Acid (HBr)	48	R.T.	No effect.
Phosphoric Acid (H ₃ PO ₄)	100	R.T.	No effect.
	30	R.T.	No effect.
	10	R.T.	No effect.

<i>Alkalis</i>	<i>%*</i>	<i>Temp. (°C)</i>	<i>Results</i>
Sodium Hydroxide (NaOH)	60	R.T.	No effect.
	30	R.T.	Mild effect; Questionable for long term use.
	10	R.T.	Mild effect; Questionable for long term use.
	10	50	Strong attack. Lowers density, loss of elongation but tensile strength retained.
	30	100	Strong attack. 80% retention of tensile and elongation. 30% retention of dielectric strength.
	10	100	Severe attack. Significant effect on all physical properties.
Potassium Hydroxide (KOH)	60	R.T.	No effect.
	30	R.T.	Slight effect on density and dielectrics.
	10	R.T.	Slight effect on dielectrics.
	30	100	Mild effect. Some loss of elongation and dielectrics. Slight drop in density.
	10	100	Vigorous attack. Significant effect on all properties.
	10	50	Lowers density. Tensile and elongation strength retained.
Ammonium Hydroxide (NH ₃ OH)	100	R.T.	Vigorous attack. Significant effect on all physical properties for both concentrations tested.
	30	R.T.	

<i>Organic Acids</i>	<i>%*</i>	<i>Temp. (°C)</i>	<i>Results</i>
Tartaric Acid (C ₄ H ₆ O ₆)	All	R.T.	No effect for 60%, 30% or 10% conc. tested.
Glacial Acetic Acid (C ₂ H ₄ O ₂)	All	R.T.	No effect for 100%, 30% or 10% conc. tested.

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