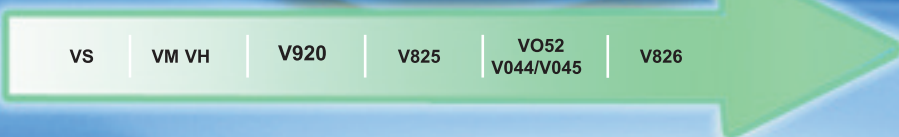


Increasing Chemical Resistance

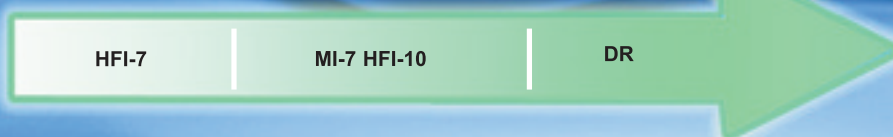


Compound Class/Name	Qualitative Ranking*	Compound Class/Name	Qualitative Ranking*	Compound Class/Name	Qualitative Ranking*	Compound Class/Name	Qualitative Ranking*
ACIDS		Detergent Solution	G	Potassium Cyanide	E	Chlorinated Solvents	N
Acetic Acid, Glacial, 100%	N	Epoxy Adhesives	E	Potassium Dichromate, 10%	E	Cyclohexane	N
Acetic Acid, 5%	E	Fruit Juice	E	Potassium Permanganate	E	Cyclohexanone	N
Chromic Acid, 40%	F	Potassium Sulfite	E	Silver Nitrate	E	Cyclohexene	N
Citric Acid, 10%	E	Kerosene	E	Sodium Chloride, 10%	E	Dimethyl Formamide	N
Hydrochloric Acid, 38%	E	Lacquer Thinner	N	Sodium Cyanide	E	Dibutyl Sebecate	F
Lactic Acid	E	Milk	E	Sodium Fluoride	E	Diethyl Ether	F
n-butyrac Acid, 100%	N	Mineral Oil	G	Sodium Nitrate	E	Diocetyl Sebacate	F
Nitric Acid, 70%	F	Motor Oil	E	Sodium Phosphate	F	Ethylene Dibromide	N
Nitric Acid, 40%	G	Olive Oil	E	Sodium Thiosulphate, 40%	E	Ethylene Glycol	E
Nitric Acid, 10%	E	Paint Removers	N	SOLVENTS & ORGANIC COMPOUNDS			
Oleic Acid	E	Paint Thinner	N	Acetaldehyde, 100%	N	Ethylene Oxide (Moist)	F
Oxalic Acid, 100%	E	Polishing Compounds	E	Acetates	N	2-Ethylhexyl Sebacate	E
Stearic Acid	E	Power Steering Fluid	E	Acetic Anhydride	N	Formaldehyde, Aqueous, 40%	E
Sulfuric Acid, 98%	N	Silicone Oil	E	Acetone	N	Glycerol	E
Sulfuric Acid, 30%	E	Soap Solution	G	Acetonitrile	N	Heptane	E
Tartaric Acid, 50%	E	Transformer Oil	G	Acetophenone	N	Hexane	E
Trichloroacetic Acid	N	Transmission Fluid	E	Alcohol, Allyl	N	Isooctane	G
		Turpentine	N	Alcohol, Amyl	N	Metacresol	N
		Unleaded Gasoline	G	Alcohol, Benzyl	N	Methyl Benzoate	N
		Wine	E	Alcohol, Ethyl, 50%	F	Methyl Cyclohexanol	N
BASES		INORGANIC COMPOUNDS					
Ammonium Phosphate	E	Ammonium Nitrate	E	Alcohol, Ethyl, 100%	N	Methyl Ethyl Ketone	N
Ammonium Hydroxide, 28%	E	Ammonium Phosphate	E	Alcohol, Methyl, 10%	G	Methyl Naphthalene	N
Sodium Carbonate, 20%	G	Calcium Hypochlorite	E	Alcohol, Methyl, 50%	F	Methyl Salicylate	N
Sodium Carbonate, 2%	G	Carbon Disulfide	N	Alcohol, Methyl, 100%	N	Methylamine	F
Sodium Hydroxide, 60%	E	Chlorine, Aqueous, 2%	N	Alcohol, n-Butyl	N	Methylene Dichloride	N
COMMERCIAL PRODUCTS		Ferric Chloride, Aqueous, 10%	E	Aniline	N	n-Octane	F
Ammonia Based Cleaners	E	Hydrogen Peroxide, 28%	F	Aviation Fuel (100 Octane)	F	Naphtha	N
Anti-freeze	E	Hydrogen Peroxide, 3%	G	Benzaldehyde	N	Nitrobenzene	N
Bathroom Cleaners, Most	G	Iron Perchloride	F	Benzene	N	Olefinic Carboxylic Acids	E
Beer	E	Mercury Chloride	F	Benzoic Aldehyde	N	Paraffin, Medicinal	E
Brake Fluid	G	Metal Carbonates	E	Butyl Acetyl Ricinoleate	F	Petroleum Ether (100-200°C)	F
Car Wash Detergent	E	Metal Chlorides	E	Butyl Stereate	F	Phenol, Aqueous, 5%	N
Chlorine Based Cleaners	E	Metal Sulfates	E	Butraldehyde	N	Phthalates	F
Coffee	E	Potassium Chlorate	E	Carbon Disulfide	N	Pyridine	N
Cosmoline [®] Removers	G					Toluene	N
Cottonseed Oil	E					Trichloroethane	N
						Trichloroethylene	N
						White Spirit	E

*Qualitative rating is based on visual appearance at ambient temperature.

LEGEND:
E=Excellent
G=Good
F=Fair
N=Not Recommended

Increasing Chemical Resistance



In general the following chemicals may be safely used with parts made from Plexiglas impact-modified acrylic resins under moderate stress at ambient temperature conditions:

Calgon® Bath Oil
Clorox® Bleach
Fantastic® Cleaner
Formula 409® Cleaner

Freon TF Cleaner
Glass Plus® Cleaner
Liquid Comet® Cleaner
Mineral Oil

Mr. Clean® Cleaner
Propylene Glycol
Sodium Hydroxide
Sodium Hypochlonte

Soft Scrub® Cleanser
Spic & Span® Powder
Soap and Water

The following chemicals may be used with caution in low-stress and/or short-duration exposure at ambient conditions

Ammonia
Brake Fluid
Chlorine (10%)

Ethyl Alcohol (≤40%)
Gasoline
Dow Disinfectant
Bathroom Cleaner & Tile Cleaner

Isopropyl Alcohol (≤50%)
Lestoil® Cleaner
Kerosene

Pinesol® Cleaner
VM&P Naphtha
Lysol® Basin, Tub

The following chemicals may cause crazing, cracking, discoloration, or dissolving of acrylic articles and are generally not recommended.

Acetic Acid
Acetone
Aromatic Solvents
Benzene

Butyl Alcohol
Chlorinated Solvents
Lacquer Thinner

Sulfuric Acid
Toluene
Lysol® Spray
Disinfectant

Turpentine
White Cap® Cleaner
Xylene

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