Tubing Chemical Compatibility

Group	Chemical	Santoprene & Norprene	Sekobril	SekoFlex	Sekokem	Sekomed	Tygon R-1000
Alcohols	Methanol	E	E	E	U	E	U
	Isopropanol	F	U	F	E	F	U
	Amyl Alcohol	U	U	U	E	U	U
	Phenol, 91%	E	F	E	E	E	U
	Benzyl Alcohol	E	E	E	E	E	U
	Ethylene Glycol	E	E	E	E	E	E
	Glycerol	E	E	E	E	E	E
	Hydroquinone	G	F	G	E	G	E
Aliphatic Hydrocarbons	Hexane	U	U	U	G	U	U
	Turpentine	U	U	U	E	U	U
	Amyl Acetate	G	U	G	U	G	U
	Carbon Disulfide	U	U	U	G	U	U
	Ethyl Ether	F	U	F	U	F	U
	Acetic Anhydride	E	F	E	U	E	U
	Acetone	U	U	U	U	U	U
Aromatic Hydrocarbons	Benzaldehyde	U	F	U	U	U	U
	Benzene	U	U	U	U	U	U
	Phenol	E	F	E	E	E	U
	Cresol	U	G	U	E	U	U
	Xylene	U	U	U	F	U	U
	Benzyl Alcohol	E	E	E	E	E	U
	Cyclohexane	U	U	U	E	U	U
	Cyclohexanone	U	U	U	U	U	U
	Styrene Monomer	U	U	U	F	U	U
	Tricresyl Phosphate	E	E	E	E	E	U
	D-Limonene	U	U	U	E	U	U
Aldehydes	Benzaldehyde	U	F	U	U	U	U
Ketones	Acetone	U	U	U	U	U	U
	Cyclohexanone	U	U	U	U	U	U
Halogenated Compounds	Methylene Chloride	F	U	F	U	F	U
	Ethylene Dichloride	F	U	F	U	F	U
	Ethylene Bromide	U	E	U	E	U	U
	Carbon Tetrachloride	U	U	U	U	U	U
Oxiranes	Tetrahydrofuran	U	U	U	U	U	U
	Dioxane	U	U	U	U	U	U
Organic Acids	Acetic Acid, 10%	E	E	E	U	E	E
	Acetic Acid, 50%	G	E	G	U	G	G
	Acetic Acid, Glacial	G	U	G	U	G	U
	Formic Acid, 98%	G	F	G	U	G	F
	Butyric Acid	G	U	G	U	G	U
	Oleic Acid	F	F	F	E	F	U
	Chloroacetic Acid,20%	G	G	G	U	G	G

Group	Chemical	Santoprene & Norprene	Sekobril	Sekoflex	Sekokem	Sekomed	Tygon R-1000
Inorganic Acids	Hydrochloric Acid, 10%	E	E	E	E	E	E
	Hydrochloric Acid, 37%	G	U	G	G	G	F
	Hydrofluoric Acid, 10%	U	U	U	E	U	E
	Hydrofluoric Acid, 25%	U	U	U	E	U	E
	Sulfuric Acid, 10%	E	E	E	E	E	E
	Sulfuric Acid, 98%	U	U	U	E	U	U
	Phosphoric Acid, 10%	E	U	E	E	E	E
	Phosphoric Acid, 85%	E	U	E	E	E	E
	Nitric Acid, 10%	E	F	E	E	E	E
	Nitric Acid, 70%	U	U	U	U	U	U
	Boric Acid, 4%	E	G	E	E	E	E
	Chromic Acid, 10%	E	U	E	E	E	G
	Fluosilicic Acid, 25%	F	U	F	E	F	E
	Perchloric Acid, 67%	E	U	E	E	E	U
	Chlorosulfonic Acid	U	U	U	U	U	U
Alkalis	Ammonium Hydroxide, 30%	E	U	E	U	E	E
	Sodium Hydroxide, 40%	E	G	E	E	E	U
Nitrogen Compounds	Acrylonitrile Diethylamine	E	U	E	U	E	G
	Dimethylformamide	G	G	G	U	G	U
	Pyridine	F	U	F	U	F	U
	Aniline	F	U	F	U	F	U
	Urea, 20%	E	G	E	E	E	E
Oils	ASTM 1	F	G	F	E	F	U
	ASTM 2	U	G	U	E	U	U
	ASTM 3	U	U	U	E	U	U
	Cottonseed	F	E	F	E	F	U
	D-Limonene	U	U	U	E	U	U
	Mineral Oil	U	U	U	E	U	U
	Silicone Oils	F	U	F	E	F	U
Inorganic Salts	Sodium Benzoate, 22%	E	E	E	E	E	E
	Sodium Bicarbonate, 7%	E	E	E	E	E	E
	Sodium Chloride, 20%	E	E	E	E	E	E
	Sodium Hypochlorite, 5%	E	E	E	E	E	E
Others	Soaps	G	F	G	E	G	F
	Detergents	G	G	G	E	G	E
	Hydrogen Peroxide, 10%	E	E	E	E	E	E
	Hydrogen Peroxide, 30%	E	E	E	E	E	E
	Corn Syrup	E	E	E	E	E	E
	Air	E	E	E	E	E	E

tests at 28 Days at 23°C

E = Excellent
G = Good
F = Fair
U = Not Recommended

The ratings in the present charts are the results of both laboratory and field tests. They reflect the relative capabilities of the various tubing to withstand specific chemicals. Certain corrosives that would be destructive to the tubing with prolonged exposures can be satisfactorily handled for short periods of time if flushed with water after use. All ratings are based on room temperature. Chemical resistance would be reduced at elevated temperatures. Although we believe these ratings to be thoroughly reliable, no guarantee is expressed or should be implied. It is suggested that the user conduct tests using the conditions of the application prior to specifying a particular tubing formulation.