Polystyrene Chemical Resistance

A=Good, B=Fair, C=Poor					
Resin in contact for 24h					
No load applied			(PS)		
			°C		
Conc.	23	50	75		
INORGANIC ACIDS	Hydrocloric Acid	10%	B	B	
		35%	B	B	
	Nitric Acid	10%	B	B	
		35%	B	B	
	Sulfuric Acid	10%	A	A	
		35%	A	A	
	Hydrofluoric Acid	10%	B	B	
		50%	C	C	C
	Chromic Acid	10%	A	B	
		50%	B	B	
	Aqua Regia	10%	B	C	C
		50%			
ORGANIC ACIDS	Acetic Acid	10%	B	B	C
		50%	C	C	C
	Citric Acid	10%	A	B	
		50%			
	Formic Acid	10%	A	A	
		50%	A	A	
	Tartaric Acid	10%	A	B	
		50%			
	Acrylic Acid	10%			
		50%			
ALKALIES	Ammonia	10%	A	A	
		50%			
	Sodium Hydroxide	10%	A	B	
		50%	A		
	Potassium Hydroxide	10%	A	A	
		50%	A	A	
	Ammonium Hydroxide	10%	A	B	

		50%			
	Butyl Alcohol (Butanol)	-	A	B	
	Methyl Alcohol (Methanol)	-	B	B	C
	Ethyl Alcohol (Ethanol)	85%	B	B	
	Cyclohexanol	-			
	Ethylene Glycol	-	A	A	A
	Isopropyl Alcohol (Isopropanol)		A	B	
ALCOHOLS	Glycolic Alcohol (Glycerol)	-			
	Acetone		C	C	C
	Cyclohexanone		C	C	C
	Formaldehyde	37%	C	C	C
KETONES	Methyl Ethyl Ketone		C	C	C
	Ethyl Acetate		C	C	C
ESTERS	Aliphatic esters				
	Dioxane		C	C	C
ETHERS	Ethylene Oxide		C	C	C
	Chloroform		C	C	C
	Methylene Chloride		C	C	C
	Perchloroethylene		C	C	C
HALOGENATED ORGANIC COMPOSITES	Carbon Tetrachloride (wet)		C	C	C
	Trichloroethylene		C	C	C
	Benzene		C	C	C
	Gasoline (pure)		C	C	C
	Cyclohexane		C	C	C
	Heptane		C	C	C
	Brake Fluids		C	C	C
	Skydrol				
	Diesel Fuel		B	B	
	Kerosene		B	C	C
	Methane (gas)				
	Mineral Oil		A	A	
HYDROCARBONS	Toluene		C	C	C

	Xylene		C	C	C
	Nitrogen				
	Sodium Bicarbonate		A	A	
	Bromine	10%	C	C	C
	Chlorine (wet)		C	C	C
	Sodium Chloride	10%	A	B	
	Fluorine				
	Iodine (solution)		B	B	
	Sodium Hypoclorite		A	B	
	Oxygen (low pressure)				
	Ozone	<5 ppm	A		
	Sodium (hot)		A		
INORGANIC CHEMICALS	Copper Sulfate	10%	A	B	
	Sulfur		A	A	
	Sea Water		A	A	
	Hydrogen Dioxide (Peroxide)	30%	A	B	
	Distilled Water		A	A	
	Aniline		C	C	C
MISCELLANEOUS	Phenol (conc.)		B		