A Guide to Chemical Resistance of Polycarbonate Tube

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The table below gives indicative results as to the chemical resistance of polycarbonate tube as shown.

	6 days / 23 °C	6 days / 50 °C
Acetic acid, 10 % in water	+	+
Acetone	swells	
Ammonia, 0.1 % in water	-	
Ammonium nitrate, 10 % in water/neutral	+	-
Benzene	swells	
Benzine - free from aromatic hydrocarbons	+	+
Butyl acetate	-	
Carbon tetrachloride	swells	
Chloroform	dissolves	
Citric acid, 10 % in water	+	
Dibutyl phthalate	-	
Diethyl ether	-	
Dimethyl formamide	dissolves	
Dioctyl phthalate	-	
Dioxane	dissolves	
Ethanol (pure)	+	+
Ethyl acetate	swells	
Ethylamine	-	
Ethylene chloride	swells	
Ethylene glycol, 1:1 with water	+	+
Glycerin	reacts	
Hexane	+	+
Hydrochloric acid, 10% in water	+	+
Hydrogen peroxide, 30 % in water	+	
Iron(III) chloride, saturated/aqueous solution	+	+
Isooctane (2,2,4-trimethyl pentane), pure	+	+ (40 °C)
Isopropanol - pure	+	
Methanol	-	
Methyl ethyl ketone	swells	
Methylamine	reacts	
Methylene chloride	dissolves	
Nitric acid, 10 % in water	+	
n-propanol	- (30 °C)	
Ozone, 1 % in air	-	
Paraffin, paraffin oil, pure/free from aromatic hydrocarbons	+	+
Phosphoric acid, 1 % in water	+	-
Potassium hydroxide, 1 % in water	-	
Propane	+	+
Silicone oil	+	+
Sodium carbonate - soda, 10 % in water	+	- (70 °C)
Sodium chloride, saturated/aqueous solution	+	+
Sodium hydroxide - caustic soda, 1 % in water	-	
Sodium nitrate, 10 % in water	+	
Styrene	-	
Sulfuric acid, 10 % in water	+	+
Tetrachloroethane	swells	
Tetrachloroethylene	-	
Trichloroethylene	swells	
Tricresyl phosphate	-	
Triethylene glycol	+	+
Xylene	swells	

+ = resistant

- = non resistant

All data given is for guidance only and you should satisfy yourself of material suitability for your chosen application before use.

You can buy polycarbonate tube online at www.theplasticshop.co.uk