

Products Made From Polysulfone

This document applies to HeatLink products including, but not limited to:

- TwistSeal® (55 mm) Manifold
- TwistSeal® Mini (40mm) Manifolds
- HPP fittings
- HPP Multiport Tees
- HPP Mini Multiport Tees

Polysulfone, The Material

Polysulfone is a strong thermoplastic that can be extruded, molded or thermoformed into a wide range of shapes and products. Most plastics require a chemical modifier to become a heat stable material. Polysulfone however, has heat stability in its unmodified or natural form. The addition of chemical modifiers can add both favorable and non-favorable characteristics to the product. Polysulfone is the strongest and most heat resistant thermoplastic available today. The range of temperatures where polysulfone offers useful characteristics is from –101°C (150°F) to 149°C (300°F) and over a long period of time.

The raw polysulfone is transparent with a light amber color. To achieve a uniform black color, which is seen in the HeatLink products, a carbon black coloring agent is evenly distributed by the polysulfone manufacturer. Table #1 highlights some of the main properties of polysulfone.

Property	Description
Transparent	Light Amber Color
Rigid	Flexural Modulus = 390,000psi (2,689Mpa)
Tough	421kJ/m² Tensile Impact Strength
Low Creep	<0.02mm/mm Elongation in 15,000hrs at 3,000psi at 99°C (210°F)
High Continuous Temperature Use	140 to 160°C (284 to 320°F)

Table #1. Highlights of the Polysulfone Properties*

Polysulfone is important to the structural plastics class because it provides better economics and performance than the materials that were available years ago.





General Characteristics

Polysulfone is available in a large range of colors. Colors can be added by pre-compounding or by "dry coloring" the natural material with soluble dyes. The addition of carbon black to the polysulfone has been found to significantly improve the weathering resistance of the polymer when being considered for outdoor applications.

Polysulfone is used in a variety of applications that include the electrical, appliance and medical fields. Polysulfone can also be used to make plastic films or sheets if required.

Chemical Structure

Polysulfone has the following repeating unit as its backbone. Polymers are made up of long chains and these units can repeat as high as 80 times in one chain.

The molecular structure is composed of phenylene units that are linked by three different chemical groups: isoproplidene, ether and a sulfone unit (see Figure 1). Each of these groups contributes specific properties to the polymer. The most distinctive feature of the backbone is the diphenylene sulfone group.

The influence of the diphenylene sulfone group (see Figure 2) on the properties of the polymer has been the focus of intense research since the early 1960's by the Union Carbide laboratories. It was expected that polymers with this group would have excellent thermal and oxidative properties due to the electronic and chemical nature of the group.

Figure #1. Molecular Structure of Polysulfone*

Figure #2. The Diphenylene Sulfone Group*



Chemical Resistance

Disclaimer: The information presented here is non-comprehensive and has been compiled from sources believed to be reliable. Chemical compositions may change therefore no guarantee is implied or expressly stated here and the data given is intended as a guide only. Under no circumstances will HeatLink be liable for any damages based on any use of this information.

Do Not allow detergents, cleaners, chemicals, solvents, sealants or glues to come into contact with HeatLink polysulfone products. Should polysulfone products come in contact with any of chemical listed as "not recommended," they should be discarded immediately.

Common Plumbing and Heating Industry Chemicals	Rating	Comments
ABS Cleaner	X	
ABS Solvent Cement (Glue)	Χ	
Ethylene Glycol	Α	
Propylene Glycol	В	
Leak Detection Solutions		It is recommended that only products specifically designed and approved for PEX and polymer fittings be used.
Molybdate-based Corrosion Inhibitor (#01205)	Α	
O-ring Lubricant (#79951, #79952)	Α	
PVC Primer	Χ	
PVC Solvent Cement (Glue)	Χ	
Solder Flux	Χ	
Spray Foam Insulation	Χ	Do not allow contact with spray foam.

Table #2. Chemical Resistance of Polysulfone to Some Common Plumbing and Heating Industry Chemicals

A = Little or no interaction	B = Slight interaction	X = Not recommended
¹ Elevated temperatures may reduce resistance	² Exposure to elevated stress may damage polymer	³ Prolonged exposure may reduce resistance



Chamical	Tomp (°C)	Rating
Chemical	Temp (°C)	Rating
1-(4-Chlorophenyl)ethanone, pure	20	В
1-(4-Chlorophenyl)ethanone, pure	50	Χ
1,3-Butadiene, pure	20	Х
1,3-Butadiene, pure	50	Χ
1,4-Dioxane, pure	20	X
1,4-Dioxane, pure	50	Χ
1:3 Mixture Of Nitric And Hydrochloric Acids, pure	20	Χ
1:3 Mixture Of Nitric And Hydrochloric Acids, pure	50	Χ
1-Pentanol, pure	20	В
1-Pentanol, pure	50	В
1-Phenylethanone, pure	20	Χ
1-Phenylethanone, pure	50	Χ
1-Undecanol, pure	20	В
1-Undecanol, pure	50	В
2,2,4-Trimethylpentane, pure	20	В
2,2,4-Trimethylpentane, pure	50	В
2,2'-Oxybispropane, pure	20	X
2,2'-Oxybispropane, pure	50	X
2	20	X
2,4,6-Trinitrophenol, pure	50	X
2,4,6-Trinitrophenol, pure	22	A
2-Ethylbutyric Acid, 100% 2-Hydroxy-1,2,3-Propanetricarboxylic Acid	20	В
Tributyl Ester, pure 2-Hydroxy-1,2,3-Propanetricarboxylic Acid	50	Х
Tributyl Ester, pure	20	В
2-Hydroxybenzaldehyde, pure	20	В
2-Hydroxybenzaldehyde, pure	50	В
2-Isopropoxypropane, pure	20	X
2-Isopropoxypropane, pure	50	X
2-Methoxyethanol, pure	20	X
2-Methoxyethanol, pure	50	Х
2-Methoxyethyl Oleate, pure	20	В
2-Methoxyethyl Oleate, pure	50	Х
2-Propanol, pure	20	Α
2-Propanol, pure	50	В
2-Propanone, pure	20	В
2-Propanone, pure	50	Χ
2-Propenenitrile, pure	20	Χ
2-Propenenitrile, pure	50	Χ
3-Phenyl-2-propenal, pure	20	В
3-Phenyl-2-propenal, pure	50	В
4'-Chloroacetophenone, pure	20	В
4'-Chloroacetophenone, pure	50	Χ
5% Acetone and Water, N/A	22	Α
Acetaldehyde, pure	20	Χ

Chemical	Temp (°C)	Rating
Acetaldehyde, pure	50	Х
Acetamide	20	Х
Acetic Acid Benzyl Ester, pure	20	Χ
Acetic Acid Benzyl Ester, pure	50	Х
Acetic Acid Phenylmethyl Ester, pure	20	Χ
Acetic Acid Phenylmethyl Ester, pure	50	Х
Acetic acid, 10%	20	Α
Acetic acid, 20%	20	Α
Acetic acid, 5%	20	Α
Acetic acid, 50% ¹	20	Α
Acetic acid, glacial ¹	20	Α
Acetic Anhydride, pure	20	Χ
Acetic Anhydride, pure	50	Χ
Acetone, pure	20	Χ
Acetone, pure	50	Χ
Acetonitrile, pure	20	Χ
Acetonitrile, pure	50	Χ
Acetophenone, pure	20	Χ
Acetophenone, pure	50	Χ
Acetyl chloride	20	Х
Acrylonitrile, pure	20	Χ
Acrylonitrile, pure	50	Х
Adhesive (Eastman 910)	20	Α
Adipic Acid, pure	20	Α
Adipic Acid, pure	50	Α
Alanine, pure	20	Α
Alanine, pure	50	Α
Alconox, 1%	20	A
Allyl Alcohol, pure	20	В
Allyl Alcohol, pure	50	В
Aluminum Chloride, pure	20	Α
Aluminum Chloride, pure	50	A
Aluminum Hydrate, pure	20	В
Aluminum Hydrate, pure	50	В
Aluminum Hydroxide, pure	20	В
Aluminum Hydroxide, pure	50	В
Aluminum Salts, pure	20 50	B B
Aluminum Salts, pure Aluminum sulfate, 10%		
Aluminum trichloride, 10%	20	A
Aluminum Trihydrate, pure	20	В
Aluminum Trihydrate, pure	50	В
Amino Acids, pure	20	А
Amino Acids, pure Amino Acids, pure	50	A
Amino Acids, pure Aminoethanol (2-)	20	A
Ammonia, 25% ²	20	A
Allinollia, 2370	20	~

Table #3. Chemical Resistance of Polysulfone

¹ Elevated temperatures may reduce resistance

⁴ Room Temperature only

² Exposure to elevated stress may damage polymer

³ Prolonged exposure may reduce resistance



Chemical	Temp (°C)	Rating
Ammonia, 29% ²	20	Α
Ammonia, pure	20	В
Ammonia, pure	50	В
Ammonium acetate, saturated	20	Α
Ammonium chloride, 10%	20	Α
Ammonium Chloride, pure	20	Α
Ammonium Chloride, pure	50	Α
Ammonium Glycolate, pure	20	В
Ammonium Glycolate, pure	50	В
Ammonium hydroxide, 15% ¹	20	Α
Ammonium hydroxide, 29% ¹	20	Α
Ammonium hydroxide, 30% ¹	20	Α
Ammonium hydroxide, 5% ¹	20	Α
Ammonium nitrate, 10%	20	Α
Ammonium Oxalate, pure	20	Α
Ammonium Oxalate, pure	50	Α
Ammonium persulfate, 24%	20	Α
Ammonium Salts, pure	20	В
Ammonium Salts, pure	50	В
Ammonium sulfate, 10%	20	Α
Amyl acetate	20	Х
Amyl alcohol	20	Α
Amyl Alcohol, pure	20	В
Amyl Alcohol, pure	50	В
Amyl Chloride, pure	20	Х
Amyl Chloride, pure	50	X
Aniline, pure	20	Х
Aniline, pure	50	X
Anti-Freeze ²	20	A
Antimony trichloride	20	X
Aqua Regia, pure	20	X
Aqua Regia, pure	50	X
Arsenic Acid, pure Arsenic Acid, pure	20 50	A
Automotive grease ²	20	A
Aviation Gasoline, N/A	22	X
Barbitol solvent	20	A
Barium chloride, 10%	20	A
Benzaldehyde	20	X
Benzaldehyde, pure	50	X
Benzenamine, pure	20	X
Benzenamine, pure	50	X
Benzene sulfonic acid	20	X
Benzene, pure	20	X
Benzene, pure	50	X
Benzoic acid ³	20	В

Chemical	Temp (°C)	Rating
Benzol, pure	20	Χ
Benzol, pure	50	Χ
Benzonitrile	20	Χ
Benzyl Acetate, pure	20	Χ
Benzyl Acetate, pure	50	Χ
Benzyl Alcohol, pure	20	Χ
Benzyl Alcohol, pure	50	Χ
Benzyl chloride	20	Χ
Black Flag, 100%	23	Α
Black Flag, 100%	66	Α
Black Flag, 100%	90	Α
Black liquor ¹	20	Α
Boric Acid, pure	20	А
Boric Acid, pure	50	Α
Brake fluid	20	Х
Brine	20	Α
Bromine, 10% ^{1,3}	20	В
Bromine, pure	20	Х
Bromine, pure	50	Χ
Bromobenzene	20	Х
Bromoform, pure	20	Χ
Bromoform, pure	50	Х
Butadiene, pure	20	X
Butadiene, pure	50	X
Butanol ²	20	A
Butter, salted ²	20	A
Butyl Acetate, pure	20	X
Butyl Acetate, pure	50	X
Butyl alcohol	20	A
Butyl cellosolve	20	A
Butyl Chloride, pure	20 50	X
Butyl Chrote, pure		
Butyl Citrate, pure Butyl Citrate, pure	20 50	B X
Butyl ether	20	A
Butyl phthalate	20	X
Butylamine (n-)	20	X
Butylated hydroxy anisole	20	X
Butylated hydroxy toluene	20	A
Butyraldehyde	20	X
Butyric acid	20	X
Calcium Chloride, pure	20	A
Calcium Chloride, pure	50	A
Calcium dinitrate, 10%	20	A
Calcium hydroxide	20	В
Calcium hypochlorite, 3.5% ³	20	A
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Table #3. Chemical Resistance of Polysulfone

A = Little or no interaction B = Slight interaction X = Not recommended

¹ Elevated temperatures may reduce resistance

⁴ Room Temperature only

² Exposure to elevated stress may damage polymer

³ Prolonged exposure may reduce resistance



Chemical	Temp (°C)	Rating
Calcium hypochlorite, saturated ³	20	А
Calcium propionate ²	20	Α
Calgon liquid	20	Α
Carbazole, pure	20	Х
Carbazole, pure	50	Х
Carbitol	20	Α
Carbitol Solvent (Diethylene Glycol Monoethyl Ether), 100%	22	Α
Carbon Disulfide, pure	20	Х
Carbon Disulfide, pure	50	Χ
Carbon Tetrachloride, pure	20	Х
Carbon Tetrachloride, pure	50	Χ
Caustic potash, 30% ⁴	20	Α
Caustic potash, 50% ⁴	20	Α
Caustic potash, concentrated ⁴	20	Α
Caustic soda, 1%	20	Α
Caustic soda, 50% ¹	20	Α
Cedarwood Oil, pure	20	В
Cedarwood Oil, pure	50	В
Cellosolve (2-ethoxyethanol)	20	Α
Cellosolve® Acetate, pure	20	В
Cellosolve® Acetate, pure	50	Χ
Chlorine, dry gas, 10%	20	Χ
Chlorine, water solution	20	Χ
Chlorine, wet gas	20	Χ
Chlorine, wet gas, 10%	20	Χ
Chloroacetic acid	20	Χ
Chlorobenzene, pure	20	Χ
Chlorobenzene, pure	50	Χ
Chloroethanol (2-)	20	Х
Chloroform, pure	20	Χ
Chloroform, pure	50	Χ
Chlorophenol, 5%	20	X
Chromic Acid, 12%	22	Α
Chromic Acid, 12%	85	Χ
Chromic acid, 20%	20	Χ
Chromic acid, 50%	20	X
Chromic acid, 60%	20	Χ
Chromic acid, sulfuric acid mixture, 96%	20	Х
Cinnamaldehyde, pure	20	В
Cinnamaldehyde, pure	50	В
Cinnamic Aldehyde, pure	20	В
Cinnamic Aldehyde, pure	50	В
Cinnamon Oil, pure	20	В
Cinnamon Oil, pure	50	В
Citric acid, 10%	20	Α

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Decahydronaphthalene, pure 50 X Decalin, pure 20 X Decalin, pure 50 X Diacetone Alcohol, pure 50 X Diacetone, pure 50 X Diacetone, pure 50 X Diacetone, pure 50 X Dibutyl phthalate, pure 50 X Dibutyl Phthalate, pure 50 X Dichlorobenzene (p-), vapor 20 X Dichlorodifluoromethane (Freon 12) 20 A Diesel fuel 20 A Diesel fuel 50 X Diethyl Benzene, pure 50 X Diethyl Benzene, pure 50 X Diethyl Ether, pure 50 X	Cyclopentane, pure	50	Х
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Dibutyl Phthalate, pure 50 X Dichlorobenzene (p-), vapor 20 X Dichlorodifluoromethane (Freon 12) 20 A Dichloromethane 20 X Diesel fuel 20 A Diesel fuel 20 A Diesel fuel (fuel oil #2) 20 A Diethyl Benzene, pure 20 X Diethyl Benzene, pure 50 X Diethyl Ether, pure 20 X Diethyl Ether, pure 50 X Diethyl Ether, pure 20 X Diethyl Ether, pure 20 X Diethyl Ketone, pure 20 X	Diacetone, pure		Х
Dichlorobenzene (p-), vapor20XDichlorodifluoromethane (Freon 12)20ADichloromethane20XDiesel fuel20ADiesel fuel (fuel oil #2)20ADiethyl Benzene, pure20XDiethyl Benzene, pure50XDiethyl Ether, pure20XDiethyl Ether, pure50XDiethyl Ketone, pure20X			
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Dichloromethane 20 X Diesel fuel 20 A Diesel fuel (fuel oil #2) 20 A Diethyl Benzene, pure 20 X Diethyl Benzene, pure 50 X Diethyl Ether, pure 20 X Diethyl Ether, pure 50 X Diethyl Ketone, pure 20 X			Х
Diesel fuel 20 A Diesel fuel (fuel oil #2) 20 A Diethyl Benzene, pure 20 X Diethyl Benzene, pure 50 X Diethyl Ether, pure 20 X Diethyl Ether, pure 50 X Diethyl Ketone, pure 20 X	Dichlorodifluoromethane (Freon 12)	20	Α
Diesel fuel (fuel oil #2)20ADiethyl Benzene, pure20XDiethyl Benzene, pure50XDiethyl Ether, pure20XDiethyl Ether, pure50XDiethyl Ketone, pure20X		20	Χ
Diethyl Benzene, pure20XDiethyl Benzene, pure50XDiethyl Ether, pure20XDiethyl Ether, pure50XDiethyl Ketone, pure20X	Diesel fuel	20	Α
Diethyl Benzene, pure50XDiethyl Ether, pure20XDiethyl Ether, pure50XDiethyl Ketone, pure20X			Α
Diethyl Ether, pure20XDiethyl Ether, pure50XDiethyl Ketone, pure20X			Х
Diethyl Ether, pure 50 X Diethyl Ketone, pure 20 X		50	Χ
Diethyl Ketone, pure 20 X		20	Χ
		50	Χ
Diethyl Ketone, pure 50 X		20	Χ
	Diethyl Ketone, pure	50	Χ

Table #3. Chemical Resistance of Polysulfone

¹ Elevated temperatures may reduce resistance

⁴ Room Temperature only

² Exposure to elevated stress may damage polymer

³ Prolonged exposure may reduce resistance



Chemical	Temp (°C)	Rating
Diethyl Malonate, pure	20	В
Diethyl Malonate, pure	50	В
Diethylamine, pure	20	В
Diethylamine, pure	50	В
Diethylene Dioxide, pure	20	Χ
Diethylene Dioxide, pure	50	Χ
Diethylene glycol	20	Χ
Diethylene glycol monoethyl ether	20	Χ
Diisopropyl Ether, pure	20	Х
Diisopropyl Ether, pure	50	Χ
Dimethyl Acetamide, pure	20	X
Dimethyl Acetamide, pure	50	X
Dimethyl Formamide, pure	20	X
Dimethyl Formamide, pure	50	X
Dimethyl Ketone, pure	20	В
Dimethyl Ketone, pure	50	X
Dimethyl sulfoxide	20	X
Dimethylaniline	20	X
Dimethylformamide (N,N-)	20	X
Dimethylsulfoxide, 50% (DMSO)	20	В
Dimethylsulfoxide, pure Dimethylsulfoxide, pure	20 50	X
Dioctylphthalate ² (dioctyl phthalate)	20	A
Dioxane, pure	20	X
Dioxane, pure	50	X
DIPE, pure	20	X
DIPE, pure	50	X
Dipropylene Glycol, pure	20	В
Dipropylene Glycol, pure	50	В
DMSO, pure	20	Χ
DMSO, pure	50	Χ
Dowtherm	20	Χ
Easy-off, 100%	23	Χ
Easy-off, 100%	66	Χ
Epichlorohydrin	20	Χ
Ethanol, 40% ^{1,2}	20	В
Ethanol ^{1,2}	20	Α
Ether, pure	20	Χ
Ether, pure	50	Χ
Ethyl Acetate, pure	20	Χ
Ethyl Acetate, pure	50	Х
Ethyl alcohol, 15%	20	Α
Ethyl alcohol, 40% ^{1,2}	20	В
Ethyl alcohol, 95% ^{1,2}	20	В
Ethyl alcohol, pure ^{1,2}	20	В
Ethyl Benzene, pure	20	Χ

Chemical	Temp (°C)	Rating
Ethyl Benzene, pure	50	Χ
Ethyl Benzoate, pure	20	Χ
Ethyl Benzoate, pure	50	Χ
Ethyl Butyrate, pure	20	Χ
Ethyl Butyrate, pure	50	Χ
Ethyl Chloride, pure	20	Χ
Ethyl Chloride, pure	50	Χ
Ethyl Cyanoacetate, pure	20	В
Ethyl Cyanoacetate, pure	50	В
Ethyl Lactate, pure	20	В
Ethyl Lactate, pure	50	В
Ethylbutyric acid (2-)	20	Α
Ethylene Chloride, pure	20	Χ
Ethylene Chloride, pure	50	Χ
Ethylene dichloride	20	Χ
Ethylene glycol monomethyl ether	20	Χ
Ethylene Glycol, pure	20	Α
Ethylene Glycol, pure	50	Α
Ethylene oxide	20	Α
Ethylene oxide, gas	20	Α
Ethylene Oxide, pure	20	В
Ethylene Oxide, pure	50	Χ
Ethylenediamine, 92% ⁴	20	Α
EtO, pure	20	В
EtO, pure	50	Χ
Fantastik, 100%	23	Α
Fantastik, 100%	66	Α
Fantastik, 100%	90	Α
Fatty Acids, Saturated, pure	20	В
Fatty Acids, Saturated, pure	50	В
Fatty Acids, Unsaturated, pure	20	В
Fatty Acids, Unsaturated, pure	50	В
Ferric chloride, 10%	20	Α
Ferrous sulfate, saturated	20	Α
Fluorides, pure	20	Α
Fluorides, pure	50	Α
Fluorine, gas	20	Х
Formaldehyde, 10%	20	Α
Formaldehyde, 2%	20	Α
Formaldehyde, 30%	20	Α
Formaldehyde, 37% ¹	20	Α
Formaldehyde, 40% ¹	20	Α
Formalin, 10%	20	Α
Formalin, 40% ^{1,3}	20	В
Formic acid, 10% ¹	20	В
Formic acid, 100% ¹	20	Χ

Table #3. Chemical Resistance of Polysulfone

A = Little or no interaction B = Slight interaction X = Not recommended

any use of this information.

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³ Prolonged exposure may reduce resistance



Chemical	Temp (°C)	Rating
Formic acid, 25% ¹	20	В
Formic acid, 3% ¹	20	Α
Formic acid, 50% ¹	20	В
Formic acid, 88% ¹	20	Χ
Formic acid, pure ¹	20	Χ
Freon 111	20	Α
Freon TF, pure ¹	20	В
Freon TMC	20	Χ
Freon TMS2	20	Α
Fuel Oil No. 1, pure	20	Α
Fuel Oil No. 1, pure	50	В
Furfural	20	Χ
Gasoline, pure	20	В
Gasoline, pure	50	В
Glutaraldehyde Disinfectant, pure	20	Α
Glutaraldehyde Disinfectant, pure	50	В
Glutaraldehyde, pure	20	Α
Glutaraldehyde, pure	50	В
Glycerine, pure	20	Α
Glycerine, pure	50	Α
Glycerol, pure	20	Α
Glycerol, pure	50	Α
Grape juice	20	Α
Grease ²	20	Α
Green liquor	20	Α
Gulf Seneca Oil #49, 100%	22	Α
Heptane (n-) ²	20	Α
Heptane, 0.05%	20	Α
Hexane, pure	20	Α
Hexane, pure	50	В
Hexanol	20	Α
Household Detergent (Joy), 5%	22	Α
Hydrated Alumina, pure	20	В
Hydrated Alumina, pure	50	В
Hydraulic oil	20	Α
Hydrazine, pure	20	Χ
Hydrazine, pure	50	Χ
Hydrobromic acid, 20%	20	Α
Hydrobromic acid, 69% ¹	20	Α
Hydrochloric acid, 20% ²	20	Α
Hydrochloric acid, 37% ¹	20	Α
Hydrochloric acid, 5% ²	20	Α
Hydrofluoric acid, 25% ^{1,3}	20	Α
Hydrofluoric acid, 4% ^{1,3}	20	В
Hydrofluoric acid, 50% ^{1,3}	20	Α
Hydrogen peroxide	20	Α

Chemical	Temp (°C)	Rating
Hydrogen peroxide, 3%	20	Α
Hydrogen peroxide, 30%	20	Α
Hydrogen peroxide, 90%	20	Α
Inhibited Acid Drain Cleaner, 100%	22	Χ
lodine Crystals, pure	20	Α
lodine Crystals, pure	50	В
lodine solutions	20	Χ
Isobutanol, pure	20	Α
Isobutanol, pure	50	В
iso-Butyl Alcohol, pure	20	Α
iso-Butyl Alcohol, pure	50	В
Isooctane	20	Α
Isopropanol, 100% ^{1,3}	20	В
iso-Propanol, 100% ^{1,3}	20	В
Isopropanol, pure ^{1,3}	20	В
Isopropanol ^{1,3}	20	В
Isopropyl Acetate, pure	20	Х
Isopropyl Acetate, pure	50	Χ
Isopropyl Alcohol, pure	20	Α
Isopropyl Alcohol, pure	50	В
Isopropyl Benzene, pure	20	Х
Isopropyl Benzene, pure	50	Χ
Isopropyl Ether, pure	20	Χ
Isopropyl Ether, pure	50	Χ
Ivory, 100%	23	Α
Ivory, 100%	66	Χ
Ivory, 100%	90	Х
Jet Dry, 100%	23	Χ
Jet Dry, 100%	66	Х
Jet Dry, 100%	90	Χ
Jet Fuel, pure	20	В
Jet Fuel, pure	50	В
Jubilee wax⁴	20	Α
Kerosene, pure	20	Α
Kerosene, pure	50	В
Ketchup	20	Α
Lacquer Thinner, pure	20	Χ
Lacquer Thinner, pure	50	Χ
Lactic acid, 3%	20	Α
Lactic acid, 60% ³	20	Α
Lactic acid, 85% ³	20	Α
L-alpha-amino Propionic Acid, pure	20	Α
L-alpha-amino Propionic Acid, pure	50	Α
Lard	20	Α
Lauric acid ³	20	Α
Lead Acetate, pure	20	Α

Table #3. Chemical Resistance of Polysulfone

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Chemical	Temp (°C)	Rating
Lead Acetate, pure	50	Α
Lemon Pledge, 100%	23	Χ
Lemon Pledge, 100%	66	Χ
Lime-Away, 100%	23	Α
Lime-Away, 100%	66	Α
Linseed oil	20	Α
L-Tartaric Acid, pure	20	Α
L-Tartaric Acid, pure	50	Α
Lubricating oil	20	Α
Lysol, 100%	23	X
Lysol, 100%	66	X
Magnesium chloride, 10%	20	Α
Magnesium Chloride, pure	20	Α
Magnesium Chloride, pure	50	Α
Malonic acid	20	Α
Margarine ²	20	Α
Mayonnaise	20	A
MEK, pure	20	X
MEK, pure	50	X
Mercuric Chloride, pure	20	A
Mercuric Chloride, pure	50	A
Methanol, 100% ²	20	A
Methanol ²	20	A
Methoxyethyl oleate	20	X
Methoxyethyl Oleate, pure	50	X
Methyl Acetate, pure	20	X
Methyl Alaskal gure	50	X
Methyl Alcohol, pure	20 50	A B
Methyl Alcohol, pure Methyl cellosolve	20	A
Methyl chloride	20	X
Methyl Ethyl Ketone, pure	20	X
Methyl Ethyl Ketone, pure	50	X
Methyl formate	20	X
Methyl Isobutyl Ketone, pure	20	X
Methyl Isobutyl Ketone, pure	50	X
Methyl Propyl Ketone, pure	20	X
Methyl Propyl Ketone, pure	50	X
Methylene Chloride, pure	20	X
Methylene Chloride, pure	50	X
Methyloxirane, pure	20	В
Methyloxirane, pure	50	X
Methylpyrrolidone	20	X
Methyl-t-Butyl Ether, pure	20	X
Methyl-t-Butyl Ether, pure	50	X
MIBK, pure	20	X
. 1		

Chemical	Temp (°C)	Rating
MIBK, pure	50	Χ
Mil H-5606 (Mobil-Aerolube), 100%	82	Α
Milk ²	20	Α
Mineral oil	20	Α
Mineral Spirits, pure	20	В
Mineral Spirits, pure	50	В
Monochlorobenzene	20	Χ
Monochlorodifluoromethane (Freon 22) ³	20	В
Monoethanolamine	20	Α
Morpholine, 0.2%	20	Χ
Motor oil	20	Α
Mr. Clean (Antibacterial), 100%	23	Χ
Mr. Clean (Antibacterial), 100%	66	Х
Mustard	20	Α
NALCON 7330 (<1%)	20	Α
NALCON 7647 (<1%)	20	Α
NALCON 7678 (<1%)	20	A
N-amyl acetate	20	X
Naphtha VMOP	20	X
Naphthalene, vapor	20	X
N-butanol ^{3,4}	20	В
n-Butyl Acetate, pure	20	X
n-Butyl Acetate, pure	50	X
n-Butyl Alcohol, pure	20	A
n-Butyl Alcohol, pure	50	A
n-Decane, pure	20	В
n-Decane, pure	50	В
n-Heptane, pure	20	В
n-Heptane, pure	50	
Nitric acid, 10% ^{3,4} Nitric acid, 20% ^{3,4}	20 20	В
Nitric acid, 25% ^{3,4}	20	В
Nitric acid, 40% ^{3,4}	20	В
Nitric acid, 40%	20	В
Nitric acid, 50% ^{3,4}	20	В
Nitric acid, 6N	20	X
Nitric acid, 71%	20	X
Nitro Methane	20	X
Nitrobenzene, pure	20	X
Nitrobenzene, pure	50	X
Nitrohydrochloric Acid, pure	20	X
Nitrohydrochloric Acid, pure	50	X
Nitromethane	20	X
Nitromethane, pure	50	X
Nitropropane	20	X
N-methyl-2-pyrrolidone	20	X
		,,

Table #3. Chemical Resistance of Polysulfone

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n-Octane, pure 20 B n-Octane, pure 50 B N-octane ^{3,4} 20 B O-dichlorobenzene 20 X Oil (ASTM #1) 20 A Oil (ASTM #2) 20 A Oil (ASTM #3) ² 20 A Oil, Cedarwood, pure 50 B Oil, Cinnamon, pure 50 B Oil, Mineral, pure 20 A Oil, Mineral, pure 50 A Oil, Oil, Oil, Oil, Oil, Oil, Oil, Oil,	Chemical	Temp (°C)	Rating
n-Octane, pure 50 B N-octane ³⁻⁴ 20 B O-dichlorobenzene 20 X Oil (ASTM #1) 20 A Oil (ASTM #3) ² 20 A Oil, Cedarwood, pure 20 B Oil, Cedarwood, pure 50 B Oil, Cinnamon, pure 20 B Oil, Cinnamon, pure 50 B Oil, Cinnamon, pure 20 A Oil, Cinnamon, pure 20 A Oil, Mineral, pure 20 A Oil, Mineral, pure 20 A Oil, Mineral, pure 50 B Oil, Mineral, pure 20 A Oil, Mineral, pure 20 A Oil, Mineral, pure 50 B Oil, Mineral, pure 50 B Oil, Oil, Pine, pure 20 B Oil, Oil, Pine, pure 50 B Oil, Orange, pure 50 B Oil, Pine, pure 20 A<			
N-octane ^{3,4} 20 B O-dichlorobenzene 20 X Oil (ASTM #1) 20 A Oil (ASTM #2) 20 A Oil (ASTM #3) ² 20 A Oil, Cedarwood, pure 20 B Oil, Cedarwood, pure 50 B Oil, Cinnamon, pure 20 B Oil, Cinnamon, pure 50 B Oil, Cinnamon, pure 50 B Oil, Mineral, pure 50 A Oil, Mineral, pure 50 A Oil, Oange, pure 50 B Oil, Pine, pure 50 B Oil, Pine, pure 50 A Oil, Pine, pure 50 B Oil, Vegetable ² 20 A Oleic Acid, 100% 22 A Orthoarsenic Acid, pure 50 A Oxalic acid, 100% 20 A Oxalic acid, 10% 20 A Oxygen 20 A Oxygen 20 A Oxone, pure 50 A Oxygen 20 A Oxone, pure 50 A D-Chloroacetophenone, pure 50 A P-Chloroacetophenone, pure 50 X Peanut oil ² 20 A Pentane 20 A Pentane 20 A Pentane 50 X Perchloric Acid, pure 50 X Peanut oil ² 20 A Perchloric Acid, pure 50 X	·		В
Oil (ASTM #2) 20 A Oil (ASTM #3)² 20 A Oil, Cedarwood, pure 20 B Oil, Cedarwood, pure 50 B Oil, Cinnamon, pure 50 B Oil, Cinnamon, pure 50 B Oil, Cinnamon, pure 50 A Oil, Cinnamon, pure 20 A Oil, Mineral, pure 20 A Oil, Mineral, pure 50 A Oil, Oil, Pive³ 20 A Oil, Orange, pure 50 B Oil, Orange, pure 50 B Oil, Pine, pure 50 B Oil, Vine, pure 50 B Oil, Oil, edardie 22 A Oleic Acid, 100% 22 A Okaic acid² <		20	В
Oil (ASTM #2) 20 A Oil, Cedarwood, pure 20 B Oil, Cinnamon, pure 50 B Oil, Corn² 20 A Oil, Mineral, pure 20 A Oil, Mineral, pure 50 A Oil, Orange, pure 20 B Oil, Orange, pure 50 B Oil, Pine, pure 20 B Oil, Pine, pure 50 B Oil, Pine, pure 50 B Oil, vegetable² 20 A Oil, vegetable² 20 A Oleic Acid, 100% 22 A Oleic Acid, 100% 22 A Orthoarsenic Acid, pure 20 A Orthoarsenic Acid, pure 50 A Oxalic acid, 20% 20 A Oxygen 20 A Oxore, pure 50 A Ozone, pure 50<	O-dichlorobenzene	20	Χ
Oil (ASTM #3)² 20 A Oil, Cedarwood, pure 20 B Oil, Cinnamon, pure 50 B Oil, Cinnamon, pure 20 B Oil, Cinnamon, pure 50 B Oil, Corn² 20 A Oil, Mineral, pure 20 A Oil, Mineral, pure 50 A Oil, Orange, pure 20 B Oil, Orange, pure 50 B Oil, Pine, pure 50 B Oil, Pine, pure 50 B Oil, vegetable² 20 A Oleic Acid, 100% 22 A Oleic Acid, 100% 22 A Oleic acid² 20 A Orthoarsenic Acid, pure 20 A Orthoarsenic Acid, pure 50 A Oxalic acid, 20% 20 A Oxygen 20 A Oxygen 20 A Ozone, pure 50 A p-Chloroacetophenone, pure 50 A p-Chlorobenzene, pure <t< td=""><td>Oil (ASTM #1)</td><td>20</td><td>Α</td></t<>	Oil (ASTM #1)	20	Α
Oil, Cedarwood, pure 20 B Oil, Cinnamon, pure 50 B Oil, Cinnamon, pure 20 B Oil, Cinnamon, pure 50 B Oil, Cinnamon, pure 50 B Oil, Corn² 20 A Oil, Mineral, pure 50 A Oil, Olive³ 20 A Oil, Orange, pure 50 B Oil, Orange, pure 50 B Oil, Orange, pure 50 B Oil, Pine, pure 50 B Oil, Pine, pure 50 B Oil, vegetable² 20 A Oleic Acid, 100% 22 A Oleic Acid, 100% 22 A Orthoarsenic Acid, pure 20 A Oxalic acid, 20% 20 A Oxygen 20 A Oxygen 20 A Ozone, pure 50 A p-Chloroacetophenone, pure 50 X	Oil (ASTM #2)	20	Α
Oil, Cedarwood, pure 50 B Oil, Cinnamon, pure 20 B Oil, Cinnamon, pure 50 B Oil, Corn² 20 A Oil, Mineral, pure 50 A Oil, Olive³ 20 A Oil, Orange, pure 20 B Oil, Orange, pure 50 B Oil, Pine, pure 50 B Oil, Pine, pure 50 B Oil, Pine, pure 50 B Oil, vegetable² 20 A Oleic Acid, 100% 22 A Oleic Acid, 100% 22 A Orthoarsenic Acid, pure 20 A Orthoarsenic Acid, pure 50 A Oxalic acid, 10% 20 A Oxalic acid, 20% 20 A Oxygen 20 A Ozone, pure 50 A Ozone, pure 50 A P-Chloroacetophenone, pure 50 X p-Dichlorobenzene, pure 50 X Pentane 20 </td <td>Oil (ASTM #3)²</td> <td>20</td> <td>Α</td>	Oil (ASTM #3) ²	20	Α
Oil, Cinnamon, pure 20 B Oil, Corn² 20 A Oil, Mineral, pure 20 A Oil, Mineral, pure 50 A Oil, Olive³ 20 A Oil, Orange, pure 20 B Oil, Orange, pure 50 B Oil, Pine, pure 50 B Oil, Pine, pure 50 B Oil, vegetable² 20 A Oleic Acid, 100% 22 A Oleic acid² 20 A Orthoarsenic Acid, pure 20 A Orthoarsenic Acid, pure 50 A Oxalic acid, 10% 20 A Oxalic acid, 20% 20 A Oxygen 20 A Ozone, pure 20 A O-Chloroacetophenone, pure 50 A p-Chloroacetophenone, pure 50 X p-Dichlorobenzene, pure 50 X p-Dichlorobenzene, pure 50 X Peanut oil² 20 A Pentane	Oil, Cedarwood, pure	20	В
Oil, Cinnamon, pure 50 B Oil, corn² 20 A Oil, Mineral, pure 20 A Oil, Mineral, pure 50 A Oil, Olive³ 20 B Oil, Orange, pure 50 B Oil, Pine, pure 50 B Oil, Pine, pure 50 B Oil, Pine, pure 50 B Oil, vegetable² 20 A Oleic Acid, 100% 22 A Oleic acid² 20 A Orthoarsenic Acid, pure 20 A Orthoarsenic Acid, pure 50 A Oxalic acid, 10% 20 A Oxalic acid, 20% 20 A Oxygen 20 A Ozone, pure 20 A O-Chloroacetophenone, pure 50 A p-Chloroacetophenone, pure 50 X p-Dichlorobenzene, pure 50 X p-Dichlorobenzene, pure 50 X Peanut oil² 20 A Pentane <t< td=""><td>Oil, Cedarwood, pure</td><td>50</td><td>В</td></t<>	Oil, Cedarwood, pure	50	В
Oil, Corn² 20 A Oil, Mineral, pure 20 A Oil, Mineral, pure 50 A Oil, Olive³ 20 B Oil, Orange, pure 50 B Oil, Pine, pure 50 B Oil, vegetable² 20 A Oleic Acid, 100% 22 A Oleic acid² 20 A Orthoarsenic Acid, pure 20 A Oxalic acid, 10% 20 A Oxalic acid, 10% 20 A Oxalic acid, 20% 20 A Oxygen 20 A Oxygen 20 A Ozone, pure 20 A Ozone, pure 50 A p-Chloroacetophenone, pure 50 X p-Dichlorobenzene, pure 50 X p-Dichlorobenzene, pure 50 X Peanut oil² 20 A	Oil, Cinnamon, pure	20	В
Oil, Mineral, pure 20 A Oil, Mineral, pure 50 A Oil, Orange, pure 20 B Oil, Orange, pure 50 B Oil, Pine, pure 20 B Oil, Pine, pure 50 B Oil, Pine, pure 50 B Oil, vegetable² 20 A Oleic Acid, 100% 22 A Oleic acid² 20 A Orthoarsenic Acid, pure 50 A Oxalic acid, 10% 20 A Oxalic acid, 20% 20 A Oxygen 20 A Ozone, pure 20 A Ozone, pure 50 A p-Chloroacetophenone, pure 50 X p-Chloroacetophenone, pure 50 X p-Dichlorobenzene, pure 50 X p-Dichlorobenzene, pure 50 X Pentane 20 A Pentyl acetate, pure 50 X Perchloric Acid, pure 50 X Perchloric Acid, pu	Oil, Cinnamon, pure	50	В
Oil, Mineral, pure 50 A Oil, Olive³ 20 B Oil, Orange, pure 20 B Oil, Pine, pure 20 B Oil, Pine, pure 50 B Oil, Pine, pure 50 B Oil, vegetable² 20 A Oleic Acid, 100% 22 A Oleic acid² 20 A Orthoarsenic Acid, pure 50 A Oxalic acid, 10% 20 A Oxalic acid, 20% 20 A Oxygen 20 A Ozone, pure 20 A Ozone, pure 20 A Ozone, pure 50 A p-Chloroacetophenone, pure 50 X p-Dichlorobenzene, pure 50 X p-Dichlorobenzene, pure 50 X Pentane 20 A Pentyl acetate, pure 50 X Perthloric Acid, pure 50 X Perchloric Acid, pure 50 X Perchloroethylene, pure <t< td=""><td>Oil, corn²</td><td>20</td><td>Α</td></t<>	Oil, corn ²	20	Α
Oil, Olive³ 20 A Oil, Orange, pure 20 B Oil, Orange, pure 50 B Oil, Pine, pure 20 B Oil, Pine, pure 50 B Oil, Pine, pure 50 B Oil, vegetable² 20 A Oleic Acid, 100% 22 A Oleic acid² 20 A Orthoarsenic Acid, pure 50 A Oxalic acid, 10% 20 A Oxalic acid, 20% 20 A Oxygen 20 A Oxone, pure 20 A Ozone, pure 20 A Ozone, pure 20 A P-Chloroacetophenone, pure 50 X p-Dichlorobenzene, pure 50 X p-Dichlorobenzene, pure 50 X Pentane 20 A Pentyl acetate, pure 50 X Perchloric Acid, pure 50 X Perchloric Acid, pure 50 X Perchloroethylene, pure <td< td=""><td>Oil, Mineral, pure</td><td>20</td><td>Α</td></td<>	Oil, Mineral, pure	20	Α
Oil, Orange, pure 20 B Oil, Pine, pure 50 B Oil, Pine, pure 50 B Oil, Pine, pure 50 B Oil, vegetable² 20 A Oleic Acid, 100% 22 A Oleic acid² 20 A Orthoarsenic Acid, pure 50 A Oxalic acid, 10% 20 A Oxalic acid, 20% 20 A Oxygen 20 A Ozone, pure 50 A Ozone, pure 50 A p-Chloroacetophenone, pure 50 X p-Chloroacetophenone, pure 50 X p-Dichlorobenzene, pure 50 X p-Dichlorobenzene, pure 50 X Pentane 20 A Pentyl acetate, pure 50 X Pentyl acetate, pure 50 X Perchloric Acid, pure 50 X Perchloroethylene, pure 50 X Perchloroethylene, pure 50 X Permat	Oil, Mineral, pure	50	Α
Oil, Orange, pure 50 B Oil, Pine, pure 20 B Oil, Pine, pure 50 B Oil, vegetable² 20 A Oleic Acid, 100% 22 A Oleic acid² 20 A Orthoarsenic Acid, pure 20 A Orthoarsenic Acid, pure 50 A Oxalic acid, 10% 20 A Oxalic acid, 20% 20 A Oxygen 20 A Ozone, pure 20 A Ozone, pure 50 A p-Chloroacetophenone, pure 20 B p-Chloroacetophenone, pure 50 X p-Dichlorobenzene, pure 50 X p-Dichlorobenzene, pure 50 X Penture 20 A Penture 20 X Penture 20 X Penture 20 X Perchloric Acid, pure 50 X Perchloro	Oil, olive ³	20	Α
Oil, Pine, pure 20 B Oil, vegetable² 20 A Oleic Acid, 100% 22 A Oleic acid² 20 A Orthoarsenic Acid, pure 20 A Orthoarsenic Acid, pure 50 A Oxalic acid, 10% 20 A Oxalic acid, 20% 20 A Oxygen 20 A Ozone, pure 20 A Ozone, pure 50 A p-Chloroacetophenone, pure 20 B p-Chloroacetophenone, pure 50 X p-Dichlorobenzene, pure 50 X p-Dichlorobenzene, pure 50 X Peanut oil² 20 A Pentane 20 A Pentyl acetate, pure 50 X Perchloric Acid, pure 50 X Perchlorocthylene, pure 50 X Perchloroethylene, pure 50 X Permatex² 20 A Petroleum based oils 20 A Petroleum	Oil, Orange, pure	20	В
Oil, Pine, pure Oil, vegetable² Oil, vegetable² 20 A Oleic Acid, 100% 22 A Oleic acid² 20 A Orthoarsenic Acid, pure Orthoarsenic Acid, pure Oxalic acid, 10% Oxalic acid, 20% Oxygen 20 A Oxygen 20 A Ozone, pure 20 A Ozone, pure 50 A Ozone, pure 50 A P-Chloroacetophenone, pure p-Chloroacetophenone, pure p-Dichlorobenzene, pure 50 X P-Dichlorobenzene, pure 50 X Peanut oil² Pentane 20 A Pentyl acetate, pure Perchloric Acid, pure Perchloroacthylene, pure Perchloroethylene, pure So X Petroleum based oils So A Petroleum ether So A Petroleumether So A Petroleumether So A Petroleumether	Oil, Orange, pure	50	В
Oil, vegetable ² Oleic Acid, 100% Oleic Acid, 100% Oleic acid ² Oleic acid ² Orthoarsenic Acid, pure Orthoarsenic Acid, pure Oxalic acid, 10% Oxalic acid, 20% Oxygen Ozone, pure Ozone, pure Ozone, pure Ozone, pure P-Chloroacetophenone, pure p-Chloroacetophenone, pure p-Dichlorobenzene, pure Pentul acetate, pure Pentyl acetate, pure Perchloric Acid, pure Perchloroacthylene, pure Perchloroacthylene, pure Perchloroethylene, pure So X Petroleum based oils So R Petroleum ether So A Petroleum ^{2,3} So A	Oil, Pine, pure	20	В
Oleic Acid, 100% 22 A Oleic acid² 20 A Orthoarsenic Acid, pure 50 A Oxalic acid, 10% 20 A Oxalic acid, 20% 20 A Oxygen 20 A Ozone, pure 20 A Ozone, pure 50 A p-Chloroacetophenone, pure 50 X p-Chloroacetophenone, pure 50 X p-Dichlorobenzene, pure 50 X P-Dichlorobenzene, pure 50 X Peanut oil² 20 A Pentane 20 A Pentyl acetate, pure 20 X Pentyl acetate, pure 50 X Perchloric Acid, pure 50 X Perchloroethylene, pure 50 X Perchloroethylene, pure 50 X Permatex² 20 A Petroleum ether 20 A Petroleum ether 20 A	Oil, Pine, pure	50	В
Oleic acid² 20 A Orthoarsenic Acid, pure 20 A Orthoarsenic Acid, pure 50 A Oxalic acid, 10% 20 A Oxalic acid, 20% 20 A Oxygen 20 A Ozone, pure 20 A Ozone, pure 50 A p-Chloroacetophenone, pure 50 X p-Dichlorobenzene, pure 50 X Peanut oil² 20 A Pentane 20 A Pentyl acetate, pure 50 X Perchloric Acid, pure 50 X Perchlorocthylene, pure 50 X Perchlorobethylene, pure 50 X Perchlorobethylene, pure 50 X Perchlorocthylene, pure 50 X Petroleum based oils 20 A Petroleum ether 20 A Petroleumether 20 A	Oil, vegetable ²	20	Α
Orthoarsenic Acid, pure Orthoarsenic Acid, pure Orthoarsenic Acid, pure Oxalic acid, 10% Oxalic acid, 20% Oxalic acid, 20% Oxygen 20 A Oxygen 20 A Ozone, pure 20 A Ozone, pure 50 A p-Chloroacetophenone, pure p-Chloroacetophenone, pure p-Dichlorobenzene, pure p-Dichlorobenzene, pure 50 X p-Dichlorobenzene, pure 50 X Peanut oil² 20 A Pentane 20 A Pentyl acetate, pure 20 X Perchloric Acid, pure 50 X Perchloric Acid, pure 50 X Perchloroethylene, pure 50 X Perchloroethylene, pure 50 X Permatex² 20 A Petroleum based oils Petroleum ether 20 A Petroleumether 20 A Petroleumether 20 A Petroleumether 20 A	Oleic Acid, 100%	22	Α
Orthoarsenic Acid, pure Oxalic acid, 10% Oxalic acid, 20% Oxygen Ozone, pure Ozone, pure P-Chloroacetophenone, pure p-Chloroacetophenone, pure p-Dichlorobenzene, pure Peanut oil² Pentane Pentyl acetate, pure Perchloric Acid, pure Perchloroacetophene Perchloroacetophene Dichlorobenzene, pure Pentyl acetate, pure Perchloric Acid, pure Perchloric Acid, pure Perchloroethylene, pure Perchloroethylene, pure Perchloroethylene, pure Petroleum based oils Petroleum ether Petroleumether Dichloroacetophenone, pure Dichloroacetophenone, pure Dichlorobenzene, pure Dichlorobenzene, pure Dichlorobenzene, pure Dichlorobenzene, pure Dichlorobenzene, pure Dichlorobenzene, pure Dichloroacetophenone, pure Di	Oleic acid ²	20	Α
Oxalic acid, 10% Oxalic acid, 20% Oxygen Ozone, pure Ozone, pure p-Chloroacetophenone, pure p-Chloroacetophenone, pure p-Dichlorobenzene, pure Peanut oil² Pentane Pentyl acetate, pure Perchloric Acid, pure Perchloroacetophene Perchlorobenzene, pure Perchlorobenzene Perchlorobenzene Dichlorobenzene Dichlorobenzene, pure Dichl	Orthoarsenic Acid, pure	20	Α
Oxalic acid, 20% 20 A Oxygen 20 A Ozone, pure 20 A Ozone, pure 50 A p-Chloroacetophenone, pure 20 B p-Chloroacetophenone, pure 50 X p-Dichlorobenzene, pure 20 X P-Dichlorobenzene, pure 50 X Peanut oil² 20 A Pentane 20 A Pentyl acetate, pure 20 X Pentyl acetate, pure 50 X Perchloric Acid, pure 20 X Perchloric Acid, pure 50 X Perchloroethylene, pure 50 X Permatex² 20 A Petroleum based oils 20 A Petroleum ether 20 A Petroleumether 20 A	Orthoarsenic Acid, pure	50	Α
Oxygen 20 A Ozone, pure 20 A Ozone, pure 50 A p-Chloroacetophenone, pure 20 B p-Chloroacetophenone, pure 50 X p-Dichlorobenzene, pure 20 X P-Dichlorobenzene, pure 50 X Peanut oil² 20 A Pentane 20 A Pentyl acetate, pure 20 X Pentyl acetate, pure 50 X Perchloric Acid, pure 20 X Perchloric Acid, pure 50 X Perchloroethylene, pure 50 X Permatex² 20 A Petroleum based oils 20 A Petroleum ether 20 A Petroleumether 20 A	Oxalic acid, 10%	20	Α
Ozone, pure Ozone, pure Ozone, pure So A P-Chloroacetophenone, pure p-Chloroacetophenone, pure p-Dichlorobenzene, pure p-Dichlorobenzene, pure So X Peanut oil² Pentane Pentyl acetate, pure Perchloric Acid, pure Perchloric Acid, pure Perchloroethylene, pure Perchloroethylene, pure Perchloroethylene, pure Petroleum based oils Petroleum²³ 20 A Petroleum²³ 20 A Petroleum²³ 20 A Petroleum²³ 20 A	Oxalic acid, 20%	20	Α
Ozone, pure 50 A p-Chloroacetophenone, pure 20 B p-Chloroacetophenone, pure 50 X p-Dichlorobenzene, pure 20 X p-Dichlorobenzene, pure 50 X Peanut oil² 20 A Pentane 20 A Pentyl acetate, pure 20 X Perchloric Acid, pure 50 X Perchloric Acid, pure 50 X Perchloroethylene, pure 50 X Perchloroethylene, pure 50 X Permatex² 20 A Petroleum based oils 20 A Petroleum ether 20 A	Oxygen	20	Α
p-Chloroacetophenone, pure 20 B p-Chloroacetophenone, pure 50 X p-Dichlorobenzene, pure 20 X p-Dichlorobenzene, pure 50 X Peanut oil² 20 A Pentane 20 A Pentyl acetate, pure 50 X Perchloric Acid, pure 50 X Perchloric Acid, pure 50 X Perchloroethylene, pure 50 X Perchloroethylene, pure 50 X Permatex² 20 A Petroleum based oils 20 A Petroleum ether 20 A	Ozone, pure	20	Α
p-Chloroacetophenone, pure 50 X p-Dichlorobenzene, pure 20 X p-Dichlorobenzene, pure 50 X Peanut oil² 20 A Pentane 20 A Pentyl acetate, pure 50 X Pentyl acetate, pure 50 X Perchloric Acid, pure 20 X Perchloric Acid, pure 50 X Perchloroethylene, pure 50 X Perchloroethylene, pure 50 X Permatex² 20 A Petroleum based oils 20 A Petroleum ether 20 A Petroleum²³ 20 A	Ozone, pure	50	Α
p-Dichlorobenzene, pure p-Entlane p-Entlane p-Entlane p-Entlane p-Entlane pure p-Entlane p-Ent	p-Chloroacetophenone, pure	20	В
p-Dichlorobenzene, pure 50 X Peanut oil² 20 A Pentane 20 A Pentyl acetate, pure 20 X Pentyl acetate, pure 50 X Perchloric Acid, pure 20 X Perchloric Acid, pure 50 X Perchloroethylene, pure 20 X Permatex² 20 A Petroleum based oils 20 A Petroleum ether 20 A Petroleum²³ 20 X	p-Chloroacetophenone, pure	50	Χ
Peanut oil² 20 A Pentane 20 A Pentyl acetate, pure 20 X Pentyl acetate, pure 50 X Perchloric Acid, pure 20 X Perchloric Acid, pure 50 X Perchloroethylene, pure 20 X Permatex² 20 A Petroleum based oils 20 A Petroleum ether 20 A Petroleum²³³ 20 X	p-Dichlorobenzene, pure	20	Χ
Pentane 20 A Pentyl acetate, pure 20 X Pentyl acetate, pure 50 X Perchloric Acid, pure 20 X Perchloric Acid, pure 50 X Perchloroethylene, pure 20 X Perchloroethylene, pure 50 X Permatex² 20 A Petroleum based oils 20 A Petroleum ether 20 A Petroleum²³³ 20 X	p-Dichlorobenzene, pure	50	Χ
Pentyl acetate, pure 20 X Pentyl acetate, pure 50 X Perchloric Acid, pure 20 X Perchloric Acid, pure 50 X Perchloroethylene, pure 20 X Perchloroethylene, pure 50 X Permatex² 20 A Petroleum based oils 20 A Petroleum ether 20 A Petroleum²³ 20 X	Peanut oil ²	20	Α
Pentyl acetate, pure 50 X Perchloric Acid, pure 20 X Perchloric Acid, pure 50 X Perchloroethylene, pure 20 X Perchloroethylene, pure 50 X Permatex² 20 A Petroleum based oils 20 A Petroleum ether 20 A Petroleum ^{2,3} 20 X	Pentane	20	Α
Perchloric Acid, pure20XPerchloric Acid, pure50XPerchloroethylene, pure20XPerchloroethylene, pure50XPermatex²20APetroleum based oils20APetroleum ether20APetroleum²³20X			Χ
Perchloric Acid, pure50XPerchloroethylene, pure20XPerchloroethylene, pure50XPermatex²20APetroleum based oils20APetroleum ether20APetroleum²³20X	Pentyl acetate, pure	50	Χ
Perchloroethylene, pure 20 X Perchloroethylene, pure 50 X Permatex² 20 A Petroleum based oils 20 A Petroleum ether 20 A Petroleum ^{2,3} 20 X			
Perchloroethylene, pure50XPermatex²20APetroleum based oils20APetroleum ether20APetroleum²³³20X	Perchloric Acid, pure	50	X
Permatex ² 20 A Petroleum based oils 20 A Petroleum ether 20 A Petroleum ^{2,3} 20 X			
Petroleum based oils20APetroleum ether20APetroleum2320X	Perchloroethylene, pure		Х
Petroleum ether20APetroleum2320X	Permatex ²	20	Α
Petroleum ^{2,3} 20 X	Petroleum based oils		Α
Phenol 20 X			
	Phenol	20	Χ

Chemical	Temp (°C)	Rating
Phenyl Methyl Ketone, pure	20	Χ
Phenyl Methyl Ketone, pure	50	Χ
Phenylacrolein, pure	20	В
Phenylacrolein, pure	50	В
Phosphoric acid, 20%	20	Α
Phosphoric acid, 5%	20	Α
Phosphoric acid, 85%	20	Α
Photographic film developer	20	Α
Photographic film fixer	20	Α
Picric Acid, pure	20	Χ
Picric Acid, pure	50	Χ
Pine Oil, pure	20	В
Pine Oil, pure	50	В
Pine-Sol, 100%	23	Χ
Pine-Sol, 100%	66	Χ
Potassium Chloride, pure	20	Α
Potassium Chloride, pure	50	Α
Potassium Hydroxide, 1%	20	Α
Potassium hydroxide, 1N ^{1,3}	20	Α
Potassium hydroxide, 20%	20	Α
Potassium hydroxide, 25% ¹	20	Α
Potassium hydroxide, 30% ^{1,3}	20	Α
Potassium hydroxide, 35% ^{1,3}	20	Α
Potassium hydroxide, 50% ^{1,3}	20	Α
Potassium hydroxide, concentrated ^{1,3}	20	Α
Potassium nitrate, saturated	20	Α
Potassium permanganate, 10%	20	Α
Potassium Permanganate, pure	20	Α
Potassium Permanganate, pure	50	Α
Propane, pure	20	Α
Propane, pure	50	Α
Propanol	20	Α
Propionic Acid, pure	20	В
Propionic Acid, pure	50	В
Propylene Glycol, pure	20	В
Propylene Glycol, pure	50	В
Propylene oxide, pure ³	20	В
Pyridine, pure	20	Χ
Pyridine, pure	50	Χ
Raid, 100%	23	Χ
Raid, 100%	66	Χ
Raid, 100%	90	Χ
Resorcinol	20	Χ
Resorcinol, 5%	20	Χ
Resorcinol, saturated	20	Χ
Salicylaldehyde, pure	20	В

Table #3. Chemical Resistance of Polysulfone

 $A = Little \ or \ no \ interaction \\ B = Slight \ interaction \\ X = Not \ recommended$

¹ Elevated temperatures may reduce resistance

⁴ Room Temperature only

² Exposure to elevated stress may damage polymer

³ Prolonged exposure may reduce resistance



Chemical	Temp (°C)	Rating
Salicylaldehyde, pure	50	В
Salicylic acid, powder	20	Α
Salicylic acid, saturated	20	Α
sec-Butanol, pure	20	Α
sec-Butanol, pure	50	В
sec-Butyl Alcohol, pure	20	Α
sec-Butyl Alcohol, pure	50	В
Shout, 100%	23	X
Shout, 100%	66	X
Shout, 100%	90	X
Siliastic 140	20	A
Silicone compounds ² Silicone Oil, pure	20 20	A
Silicone Oil, pure	50	A
Silver Acetate, pure	20	A
Silver Acetate, pure	50	A
Silver Nitrate, pure	20	A
Silver Nitrate, pure	50	Α
Simple Green, 100%	23	Х
Simple Green, 100%	66	Χ
Simple Green, 100%	90	Х
Skydrol LD4 Aviation Hydraulic Fluid, pure	20	Χ
Skydrol LD4 Aviation Hydraulic Fluid, pure	50	Х
Soda Ash, pure	20	Α
Soda Ash, pure	50	Α
Sodium Acetate, pure	20	Α
Sodium Acetate, pure	50	Α
Sodium bicarbonate, 10%	20	Α
Sodium carbonate, 10%	20	Α
Sodium Carbonate, pure	20	A
Sodium Carbonate, pure	50	A
Sodium chloride, 10%	20	A
Sodium chromate, 10% Sodium Dichromate, pure	20	A
Sodium Dichromate, pure	50	A
Sodium hydroxide, 0.1N	20	A
Sodium hydroxide, 0.114	20	A
Sodium hydroxide, 10% ¹	20	A
Sodium hydroxide, 15% ¹	20	A
Sodium hydroxide, 25% ¹	20	A
Sodium hydroxide, 30% ¹	20	A
Sodium hydroxide, 5%	20	Α
Sodium hydroxide, 50% ¹	20	Α
Sodium hydroxide, concentrated	20	Α
Sodium hypochloride, 10%	20	Α
Sodium hypochlorite, 0.17%	20	Α

Chemical Temp (*C) Rating Sodium hypochlorite, 15% 20 A Sodium silicate, 1.7%² 20 A Sodium sulfate, 10% 20 A Sodium sulfide, 10% 20 A Sodium thiosulfite, 10% 20 A Solder Flux, 100% 66 X Solder Flux, 100% 90 X Sorbic acid 20 A Stearic Acid, pure 50 B Stearic Acid, pure 50 B Stoddard Solvent² 20 A Sulfur dioxide, liquid (46 psig)²³ 20 B Sulfur dioxide, pure²³ 20 B Sulfur dioxide, wet gas²³ 20 B Sulfuric acid, 20%³ 20 A Sulfuric acid, 25%³ 20 A Sulfuric acid, 5%³ 20 A Sulfuric acid, 5%³ 20 A Sulfuric acid, 60%³ 20 X Sulfuric acid, 60%³ 20 X Sulfuric			
Sodium silicate, 1.7%² 20 A Sodium sulfide, 10% 20 A Sodium sulfide, 10% 20 A Solder Flux, 100% 23 A Solder Flux, 100% 66 X Solder Flux, 100% 90 X Solder Flux, 100% 90 X Sorbic acid 20 A Stearic Acid, pure 20 A Stearic Acid, pure 50 B Stoddard Solvent² 20 A Sulfur dioxide, liquid (46 psig)²³ 20 B Sulfur dioxide, pure²³ 20 B Sulfuric acid, 20%³ 20 B Sulfuric acid, 20%³ 20 A Sulfuric acid, 5%³ 20 A Sulfuric acid, 5%³ 20 A Sulfuric acid, 6%³ 20 X Sulfuric acid, 85%³ </th <th>Chemical</th> <th>Temp (°C)</th> <th>Rating</th>	Chemical	Temp (°C)	Rating
Sodium sulfate, 10% 20 A Sodium thiosulfite, 10% 20 A Solder Flux, 100% 20 A Solder Flux, 100% 66 X Solder Flux, 100% 90 X Sorbic acid 20 A Stearic Acid, pure 20 A Stearic Acid, pure 50 B Stoddard Solvent² 20 A Sulfolane 20 X Sulfur dioxide, liquid (46 psig)²³ 20 B Sulfur dioxide, pure²³ 20 B Sulfur dioxide, wet gas²³ 20 B Sulfur dioxide, wet gas²³ 20 B Sulfuric acid, 20%³ 20 A Sulfuric acid, 20%³ 20 A Sulfuric acid, 30%³ 20 A Sulfuric acid, 6%³ 20 A Sulfuric acid, 6%³ 20 A Sulfuric acid, 6%³ 20 A Sulfuric acid, 98% 20 X Sulfuric acid, 98%	Sodium hypochlorite, 15%	20	Α
Sodium sulfide, 10% 20 A Sodium thiosulfite, 10% 20 A Solder Flux, 100% 23 A Solder Flux, 100% 90 X Sorbic acid 20 A Stearic Acid, pure 20 A Stearic Acid, pure 50 B Stoddard Solvent² 20 A Sulfolane 20 X Sulfur dioxide, liquid (46 psig)²³ 20 B Sulfur dioxide, pure²³ 20 B Sulfur dioxide, wet gas²³ 20 B Sulfuric acid, 20%³ 20 A Sulfuric acid, 20%³ 20 A Sulfuric acid, 20%³ 20 A Sulfuric acid, 30%³ 20 A Sulfuric acid, 60%³ 20 A Sulfuric acid, 60%³ 20 A Sulfuric acid, 65%³ 20 A Sulfuric acid, 65%³ 20 A Sulfuric acid, 95% 20 X Sulfuric acid, 95%	Sodium silicate, 1.7% ²	20	Α
Solder Flux, 100% 23 A Solder Flux, 100% 66 X Solder Flux, 100% 90 X Sorbic acid 20 A Stearic Acid, pure 20 A Stearic Acid, pure 50 B Stoddard Solvent² 20 A Sulfolane 20 X Sulfur dioxide, liquid (46 psig)²³ 20 B Sulfur dioxide, pure²³ 20 B Sulfur dioxide, wet gas²³ 20 B Sulfur salts²³ 20 B Sulfuric acid, 20%³ 20 A Sulfuric acid, 25%³ 20 A Sulfuric acid, 25%³ 20 A Sulfuric acid, 5%³ 20 A Sulfuric acid, 6%³ 20 A Sulfuric acid, 66%³ 20 A Sulfuric acid, 85%³ 20 A Sulfuric acid, 96% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, 96% 20 <td>Sodium sulfate, 10%</td> <td>20</td> <td>Α</td>	Sodium sulfate, 10%	20	Α
Solder Flux, 100% 23 A Solder Flux, 100% 66 X Solder Flux, 100% 90 X Sorbic acid 20 A Stearic Acid, pure 50 B Steddard Solvent² 20 A Sulfur dioxide, liquid (46 psig)²³ 20 B Sulfur dioxide, pure²³ 20 B Sulfur dioxide, wet gas²³ 20 B Sulfur dioxide, wet gas²³ 20 B Sulfuric acid, 20%³ 20 A Sulfuric acid, 25%³ 20 A Sulfuric acid, 25%³ 20 A Sulfuric acid, 5%³ 20 A Sulfuric acid, 66%³ 20 A Sulfuric acid, 66%³ 20 A Sulfuric acid, 65%³ 20 A Sulfuric acid, 85%³ 20 A Sulfuric acid, 95% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, 98%<	Sodium sulfide, 10%	20	Α
Solder Flux, 100% 66 X Solder Flux, 100% 90 X Sorbic acid 20 A Stearic Acid, pure 20 A Stearic Acid, pure 50 B Stoddard Solvent² 20 A Sulfur dioxide, liquid (46 psig)²³ 20 B Sulfur dioxide, pure²³ 20 B Sulfur dioxide, wet gas²³ 20 B Sulfur dioxide, wet gas²³ 20 B Sulfur dioxide, wet gas²³ 20 B Sulfuric acid, 20%³ 20 A Sulfuric acid, 25%³ 20 A Sulfuric acid, 25%³ 20 A Sulfuric acid, 6%³ 20 A Sulfuric acid, 66%³ 20 A Sulfuric acid, 65%³ 20 A Sulfuric acid, 85%³ 20 A Sulfuric acid, 95% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, 98% 20 X Sulfuric aci	Sodium thiosulfite, 10%	20	Α
Solder Flux, 100% 90 X Sorbic acid 20 A Stearic Acid, pure 20 A Stearic Acid, pure 50 B Stoddard Solvent² 20 A Sulfur dioxide, liquid (46 psig)²³ 20 B Sulfur dioxide, pure²³ 20 B Sulfur dioxide, wet gas²³ 20 B Sulfur salts²³ 20 B Sulfuric acid, 20%³ 20 A Sulfuric acid, 25%³ 20 A Sulfuric acid, 25%³ 20 A Sulfuric acid, 55%³ 20 A Sulfuric acid, 6%³ 20 A Sulfuric acid, 60%³ 20 A Sulfuric acid, 65%³ 20 A Sulfuric acid, 65%³ 20 X Sulfuric acid, 95% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, 98% 20 X Sulfuric acid, ocncentrated 20 X Sulfuric acid, ocnc	•	23	Α
Sorbic acid 20 A Stearic Acid, pure 20 A Stearic Acid, pure 50 B Stoddard Solvent² 20 A Sulfur dioxide, pure²³ 20 B Sulfur dioxide, pure²³ 20 B Sulfur dioxide, wet gas²³ 20 B Sulfur salts²³ 20 B Sulfuric acid, 20%³ 20 A Sulfuric acid, 25%³ 20 A Sulfuric acid, 30%³ 20 A Sulfuric acid, 58³ 20 A Sulfuric acid, 66%³ 20 A Sulfuric acid, 65%³ 20 A Sulfuric acid, 65%³ 20 A Sulfuric acid, 68%³ 20 X Sulfuric acid, 95%6 20 X Sulfuric acid, 96% 20 X Sulfuric acid, concentrated 20 X Sulfuric acid, pere 20 X Sulfuric acid, pure 20 A Tartaric Acid, pure	Solder Flux, 100%	66	Χ
Stearic Acid, pure 20 A Stearic Acid, pure 50 B Stoddard Solvent² 20 A Sulfolane 20 X Sulfur dioxide, liquid (46 psig)²²³ 20 B Sulfur dioxide, pure²³ 20 B Sulfur dioxide, wet gas²³ 20 B Sulfur salts²³ 20 B Sulfuric acid, 20%³ 20 A Sulfuric acid, 25%³ 20 A Sulfuric acid, 58³ 20 A Sulfuric acid, 68³ 20 A Sulfuric acid, 60%³ 20 X Sulfuric acid, 95%³ 20 A Sulfuric acid, 95%³ 20 X Sulfuric acid, 98% 20 X Sulfuric acid, 98% 20 X Sulfuric acid, 99%	Solder Flux, 100%		Χ
Stearic Acid, pure 50 B Stoddard Solvent² 20 A Sulfolane 20 X Sulfur dioxide, liquid (46 psig)²³ 20 B Sulfur dioxide, pure²³ 20 B Sulfur dioxide, wet gas²³ 20 B Sulfur salts²³ 20 B Sulfuric acid, 20%³ 20 A Sulfuric acid, 25%³ 20 A Sulfuric acid, 5%³ 20 A Sulfuric acid, 68³ 20 A Sulfuric acid, 66%³ 20 A Sulfuric acid, 65%³ 20 A Sulfuric acid, 65%³ 20 A Sulfuric acid, 85%³ 20 A Sulfuric acid, 95% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, 98%	Sorbic acid	20	Α
Stoddard Solvent² 20 A Sulfolane 20 X Sulfur dioxide, liquid (46 psig)²-³ 20 B Sulfur dioxide, pure²-³ 20 B Sulfur dioxide, wet gas²-³ 20 B Sulfur salts²-³ 20 B Sulfuric acid, 20%³ 20 A Sulfuric acid, 25%³ 20 A Sulfuric acid, 5%³ 20 A Sulfuric acid, 6%³ 20 A Sulfuric acid, 60%³ 20 A Sulfuric acid, 65%³ 20 A Sulfuric acid, 65%³ 20 A Sulfuric acid, 65%³ 20 X Sulfuric acid, 95% 20 X Sulfuric acid, 95% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, concentrated 20 X Sulfuric acid, concentrated 20 X Sulfuric acid, pure 20 A TCA, pure 20 B TCA, pure 20 B Tetrabutolo, pure¹-² 20 B	Stearic Acid, pure	20	Α
Sulfordioane 20 X Sulfur dioxide, liquid (46 psig)²³ 20 B Sulfur dioxide, pure²³ 20 B Sulfur dioxide, wet gas²³ 20 B Sulfuric acid, 20%³ 20 A Sulfuric acid, 25%³ 20 A Sulfuric acid, 30%³ 20 A Sulfuric acid, 5%³ 20 A Sulfuric acid, 60%³ 20 A Sulfuric acid, 60%³ 20 A Sulfuric acid, 65%³ 20 A Sulfuric acid, 65%³ 20 X Sulfuric acid, 85%³ 20 A Sulfuric acid, 95% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, 98% 20 X Sulfuric acid, concentrated 20 X Sunlight Dishwashing Soap, 100% 23 A Sunlight Dishwashing Soap, 100% 66 A Tartaric Acid, pure 50 A TCA, pure 50 X tert-Butanol, pure¹² 20 B Tetrachlorodifluoroet		50	В
Sulfur dioxide, liquid (46 psig)²³ 20 B Sulfur dioxide, pure²³ 20 B Sulfur dioxide, wet gas²³ 20 B Sulfuric acid, 20%³ 20 A Sulfuric acid, 25%³ 20 A Sulfuric acid, 30%³ 20 A Sulfuric acid, 5%³ 20 A Sulfuric acid, 60%³ 20 A Sulfuric acid, 60%³ 20 A Sulfuric acid, 65%³ 20 A Sulfuric acid, 65%³ 20 X Sulfuric acid, 95%° 20 X Sulfuric acid, 96% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, 98% 20 X Sulfuric acid, concentrated 20 X Sunlight Dishwashing Soap, 100% 23 A Sunlight Dishwashing Soap, 100% 66 A Tartaric Acid, pure 20 B TCA, pure 20 B TCA, pure 50 X Tetra-Butyl alcohol, pure¹² 20 B Tetra-Horodifluor	Stoddard Solvent ²	20	Α
Sulfur dioxide, pure²³ 20 B Sulfur dioxide, wet gas²³ 20 B Sulfur salts²³ 20 A Sulfuric acid, 20%³ 20 A Sulfuric acid, 25%³ 20 A Sulfuric acid, 5%³ 20 A Sulfuric acid, 6%³ 20 A Sulfuric acid, 60%³ 20 A Sulfuric acid, 65%³ 20 A Sulfuric acid, 65%³ 20 X Sulfuric acid, 85%³ 20 A Sulfuric acid, 95% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, concentrated 20 X Sulfuric acid, soncentrated 20 X Sunlight Dishwashing Soap, 100% 23 A Sunlight Dishwashing Soap, 100% 66 A Tartaric Acid, pure 50 A TCA, pure 20 B TCA, pure 50 X tert-Butanol, pure¹² 20 B Tetrachlorodifluoroethane (Freon BF)²	Sulfolane	20	Х
Sulfur dioxide, wet gas²³ 20 B Sulfur salts²³ 20 A Sulfuric acid, 20%³ 20 A Sulfuric acid, 25%³ 20 A Sulfuric acid, 5%³ 20 A Sulfuric acid, 6%³ 20 A Sulfuric acid, 60%³ 20 A Sulfuric acid, 65%³ 20 A Sulfuric acid, 6N 20 X Sulfuric acid, 85%³ 20 A Sulfuric acid, 95% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, concentrated 20 X Sulfuric acid, soop, 100% 23 A Sunlight Dishwashing Soap, 100% 23 A Sunlight Dishwashing Soap, 100% 66 A Tartaric Acid, pure 20 A TCA, pure 20 B TCA, pure 50 X Tetra-Butanol, pure¹¹² 20 B Tetra-Butyl alcohol, pure¹² 20 B Tetrahydrofuran, pure 50 X Tetrahydrofuran, pure	Sulfur dioxide, liquid (46 psig) ^{2,3}	20	В
Sulfur salts²³ 20 B Sulfuric acid, 20%³ 20 A Sulfuric acid, 25%³ 20 A Sulfuric acid, 30%³ 20 A Sulfuric acid, 6%³ 20 A Sulfuric acid, 60%³ 20 A Sulfuric acid, 65%³ 20 A Sulfuric acid, 6N 20 X Sulfuric acid, 85%³ 20 A Sulfuric acid, 95% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, concentrated 20 X Sulfuric acid, soop, 100% 23 A Sunlight Dishwashing Soap, 100% 23 A Sunlight Dishwashing Soap, 100% 66 A Tartaric Acid, pure 50 A TCA, pure 20 B TCA, pure 50 X Tetra-Butanol, pure¹² 20 B Tetrachlorodifluoroethane (Freon BF)² 20 B Tetrahydrofuran, pure 50 X Tetrahydrofuran, pure 50 X Thionyl Chloride, pure <td>Sulfur dioxide, pure^{2,3}</td> <td>20</td> <td>В</td>	Sulfur dioxide, pure ^{2,3}	20	В
Sulfuric acid, 20%³ 20 A Sulfuric acid, 25%³ 20 A Sulfuric acid, 30%³ 20 A Sulfuric acid, 5%³ 20 A Sulfuric acid, 66%³ 20 A Sulfuric acid, 60%³ 20 A Sulfuric acid, 65%³ 20 X Sulfuric acid, 85%³ 20 A Sulfuric acid, 95% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, concentrated 20 X Sulfuric acid, concentrated 20 X Sunlight Dishwashing Soap, 100% 23 A Sunlight Dishwashing Soap, 100% 66 A Tartaric Acid, pure 20 A TCA, pure 20 B TCA, pure 20 B tert-Butanol, pure¹¹² 20 B Tetrachlorodifluoroethane (Freon BF)² 20 A Tetrahydrofuran, pure 20 X Thionyl Chloride, pure 50 X Thionyl Chloride, pure 50 X Tilex Mildew	Sulfur dioxide, wet gas ^{2,3}	20	В
Sulfuric acid, 25%³ 20 A Sulfuric acid, 30%³ 20 A Sulfuric acid, 5%³ 20 A Sulfuric acid, 60%³ 20 A Sulfuric acid, 60%³ 20 A Sulfuric acid, 65%³ 20 A Sulfuric acid, 85%³ 20 A Sulfuric acid, 95% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, concentrated 20 X Sulfuric acid, concentrated 20 X Sunlight Dishwashing Soap, 100% 23 A Sunlight Dishwashing Soap, 100% 66 A Tartaric Acid, pure 20 A TCA, pure 20 B TCA, pure 20 B tert-Butanol, pure¹² 20 B Tetrachlorodifluoroethane (Freon BF)² 20 A Tetrahydrofuran, pure 20 X Thionyl Chloride, pure 50 X Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 23 A Tilex	Sulfur salts ^{2,3}	20	В
Sulfuric acid, 30%³ 20 A Sulfuric acid, 5%³ 20 A Sulfuric acid, 66%³ 20 A Sulfuric acid, 60%³ 20 A Sulfuric acid, 65%³ 20 A Sulfuric acid, 85%³ 20 A Sulfuric acid, 95% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, 98% 20 X Sulfuric acid, concentrated 20 X Sunlight Dishwashing Soap, 100% 23 A Sunlight Dishwashing Soap, 100% 66 A Tartaric Acid, pure 20 A TCA, pure 20 B TCA, pure 20 B TCA, pure 20 B Tetra-Butanol, pure ^{1,2} 20 B Tetra-Butyl alcohol, pure ^{1,2} 20 B Tetrachlorodifluoroethane (Freon BF)² 20 A Tetrahydrofuran, pure 50 X Thionyl Chloride, pure 50 X Thionyl Chloride, pure 50 X Tilex Mildew Remo	•	20	Α
Sulfuric acid, 5%³ 20 A Sulfuric acid, 6%³ 20 A Sulfuric acid, 60%³ 20 A Sulfuric acid, 65%³ 20 A Sulfuric acid, 85%³ 20 A Sulfuric acid, 95% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, 98% 20 X Sulfuric acid, concentrated 20 X Sulfight Dishwashing Soap, 100% 23 A Sunlight Dishwashing Soap, 100% 66 A Tartaric Acid, pure 20 A TCA, pure 20 B TCA, pure 20 B Tetr-Butanol, pure ^{1,2} 20 B Tetra-Butyl alcohol, pure ^{1,2} 20 B Tetra-Butyl alcohol, pure ^{1,2} 20 B Tetrahydrofuran, pure 20 X Tetrahydrofuran, pure 50 X Thionyl Chloride, pure 50 X Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 23 A Tilex M	Sulfuric acid, 25% ³	20	Α
Sulfuric acid, 66%³ 20 A Sulfuric acid, 60%³ 20 A Sulfuric acid, 65%³ 20 X Sulfuric acid, 85%³ 20 A Sulfuric acid, 95% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, 98% 20 X Sulfuric acid, concentrated 20 X Sunlight Dishwashing Soap, 100% 23 A Sunlight Dishwashing Soap, 100% 66 A Tartaric Acid, pure 20 A TCA, pure 20 B TCA, pure 20 B TCA, pure 50 X tert-Butanol, pure ^{1,2} 20 B tert-Butyl alcohol, pure ^{1,2} 20 B Tetrachlorodifluoroethane (Freon BF)² 20 A Tetrahydrofuran, pure 50 X Thionyl Chloride, pure 50 X Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 23 A Tilex Mildew Remover, 100% 66 A	Sulfuric acid, 30% ³	20	Α
Sulfuric acid, 60%³ 20 A Sulfuric acid, 65%³ 20 X Sulfuric acid, 85%³ 20 A Sulfuric acid, 95% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, 98% 20 X Sulfuric acid, concentrated 20 X Sunlight Dishwashing Soap, 100% 23 A Sunlight Dishwashing Soap, 100% 66 A Tartaric Acid, pure 20 A TCA, pure 20 B TCA, pure 20 B TCA, pure 50 X tert-Butyl alcohol, pure¹¹² 20 B Tetrachlorodifluoroethane (Freon BF)² 20 A Tetrahydrofuran, pure 20 X Thionyl Chloride, pure 50 X Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 23 A Tilex Mildew Remover, 100% 66 A	Sulfuric acid, 5% ³	20	Α
Sulfuric acid, 65%³ 20 A Sulfuric acid, 6N 20 X Sulfuric acid, 85%³ 20 A Sulfuric acid, 95% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, 98% 20 X Sulfuric acid, concentrated 20 X Sunlight Dishwashing Soap, 100% 23 A Sunlight Dishwashing Soap, 100% 66 A Tartaric Acid, pure 20 A Tartaric Acid, pure 50 A TCA, pure 20 B TCA, pure 50 X tert-Butyl alcohol, pure¹²² 20 B Tetrachlorodifluoroethane (Freon BF)² 20 A Tetrahydrofuran, pure 20 X Thionyl Chloride, pure 50 X Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 23 A Tilex Mildew Remover, 100% 66 A	Sulfuric acid, 6% ³	20	Α
Sulfuric acid, 6N Sulfuric acid, 85%³ 20 A Sulfuric acid, 95% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, 98% 20 X Sulfuric acid, 98% 20 X Sulfuric acid, oncentrated 20 X Sunlight Dishwashing Soap, 100% 23 A Sunlight Dishwashing Soap, 100% 66 A Tartaric Acid, pure 20 A Tartaric Acid, pure 50 A TCA, pure 50 TCA, pure 50 X tert-Butanol, pure¹²² 20 B Tetrachlorodifluoroethane (Freon BF)² Tetrachlorodifluoroethane (Freon BF)² Tetrahydrofuran, pure 50 X Tetrahydrofuran, pure 50 X Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 66 A	Sulfuric acid, 60% ³	20	Α
Sulfuric acid, 85%³ 20 A Sulfuric acid, 95% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, 98% 20 X Sulfuric acid, concentrated 20 X Sunlight Dishwashing Soap, 100% 23 A Sunlight Dishwashing Soap, 100% 66 A Tartaric Acid, pure 20 A TCA, pure 50 A TCA, pure 20 B TCA, pure 50 X tert-Butanol, pure ^{1,2} 20 B tert-Butyl alcohol, pure ^{1,2} 20 B Tetrachlorodifluoroethane (Freon BF)² 20 A Tetrahydrofuran, pure 20 X Thionyl Chloride, pure 50 X Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 23 A Tilex Mildew Remover, 100% 66 A	·	20	Α
Sulfuric acid, 95% 20 X Sulfuric acid, 96% 20 X Sulfuric acid, 98% 20 X Sulfuric acid, concentrated 20 X Sunlight Dishwashing Soap, 100% 23 A Sunlight Dishwashing Soap, 100% 66 A Tartaric Acid, pure 20 A TCA, pure 50 A TCA, pure 50 X tert-Butanol, pure ^{1,2} 20 B tert-Butyl alcohol, pure ^{1,2} 20 B Tetrachlorodifluoroethane (Freon BF) ² 20 A Tetrahydrofuran, pure 20 X Tetrahydrofuran, pure 50 X Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 23 A Tilex Mildew Remover, 100% 66 A	Sulfuric acid, 6N	20	Χ
Sulfuric acid, 96% Sulfuric acid, 98% 20 X Sulfuric acid, 98% 20 X Sulfuric acid, concentrated 20 X Sunlight Dishwashing Soap, 100% 23 A Sunlight Dishwashing Soap, 100% 66 A Tartaric Acid, pure 20 A Tartaric Acid, pure 50 A TCA, pure 20 B TCA, pure 50 X tert-Butanol, pure ^{1,2} 20 B Tetra-Butyl alcohol, pure ^{1,2} 20 B Tetrachlorodifluoroethane (Freon BF) ² 20 A Tetrahydrofuran, pure 20 X Tetrahydrofuran, pure 50 X Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 66 A	Sulfuric acid, 85% ³	20	Α
Sulfuric acid, 98% Sulfuric acid, concentrated 20 X Sunlight Dishwashing Soap, 100% Sunlight Dishwashing Soap, 100% 66 A Tartaric Acid, pure 20 A Tartaric Acid, pure 50 A TCA, pure 50 X tert-Butanol, pure ^{1,2} 20 B Tetrachlorodifluoroethane (Freon BF) ² Tetrahydrofuran, pure 50 X Tetrahydrofuran, pure 50 X Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 66 A	Sulfuric acid, 95%	20	Χ
Sulfuric acid, concentrated 20 X Sunlight Dishwashing Soap, 100% 23 A Sunlight Dishwashing Soap, 100% 66 A Tartaric Acid, pure 20 A Tartaric Acid, pure 50 A TCA, pure 50 X tert-Butanol, pure ^{1,2} 20 B tert-Butyl alcohol, pure ^{1,2} 20 B Tetrachlorodifluoroethane (Freon BF) ² 20 A Tetrahydrofuran, pure 50 X Tetrahydrofuran, pure 50 X Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 66 A	•		
Sunlight Dishwashing Soap, 100% Sunlight Dishwashing Soap, 100% 666 A Tartaric Acid, pure 20 A Tartaric Acid, pure 50 A TCA, pure 20 B TCA, pure 50 X tert-Butanol, pure ^{1,2} 20 B Tetrachlorodifluoroethane (Freon BF) ² Tetrahydrofuran, pure 50 X Tetrahydrofuran, pure 50 X Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 66 A	,	20	Х
Sunlight Dishwashing Soap, 100% Tartaric Acid, pure 20 A Tartaric Acid, pure 50 A TCA, pure 50 X Tert-Butanol, pure ^{1,2} tert-Butyl alcohol, pure ^{1,2} Tetrachlorodifluoroethane (Freon BF) ² Tetrahydrofuran, pure 20 X Tetrahydrofuran, pure 50 X Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 66 A	Sulfuric acid, concentrated	20	Χ
Tartaric Acid, pure 20 A Tartaric Acid, pure 50 A TCA, pure 20 B TCA, pure 50 X tert-Butanol, pure ^{1,2} 20 B tert-Butyl alcohol, pure ^{1,2} 20 B Tetrachlorodifluoroethane (Freon BF) ² 20 A Tetrahydrofuran, pure 20 X Tetrahydrofuran, pure 50 X Thionyl Chloride, pure 20 X Tilex Mildew Remover, 100% 23 A Tilex Mildew Remover, 100% 66 A	Sunlight Dishwashing Soap, 100%	23	Α
Tartaric Acid, pure 50 A TCA, pure 20 B TCA, pure 50 X tert-Butanol, pure ^{1,2} 20 B tert-Butyl alcohol, pure ^{1,2} 20 B Tetrachlorodifluoroethane (Freon BF) ² 20 A Tetrahydrofuran, pure 20 X Tetrahydrofuran, pure 50 X Thionyl Chloride, pure 20 X Tilex Mildew Remover, 100% 23 A Tilex Mildew Remover, 100% 66 A	Sunlight Dishwashing Soap, 100%	66	Α
TCA, pure 20 B TCA, pure 50 X tert-Butanol, pure ^{1,2} 20 B tert-Butyl alcohol, pure ^{1,2} 20 B Tetrachlorodifluoroethane (Freon BF) ² 20 A Tetrahydrofuran, pure 20 X Tetrahydrofuran, pure 50 X Thionyl Chloride, pure 20 X Tilex Mildew Remover, 100% 23 A Tilex Mildew Remover, 100% 66 A	Tartaric Acid, pure	20	Α
TCA, pure 50 X tert-Butanol, pure ^{1,2} 20 B tert-Butyl alcohol, pure ^{1,2} 20 B Tetrachlorodifluoroethane (Freon BF) ² 20 A Tetrahydrofuran, pure 20 X Tetrahydrofuran, pure 50 X Thionyl Chloride, pure 20 X Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 23 A Tilex Mildew Remover, 100% 66 A	Tartaric Acid, pure	50	Α
tert-Butanol, pure ^{1,2} 20 B tert-Butyl alcohol, pure ^{1,2} 20 B Tetrachlorodifluoroethane (Freon BF) ² 20 A Tetrahydrofuran, pure 20 X Tetrahydrofuran, pure 50 X Thionyl Chloride, pure 20 X Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 23 A Tilex Mildew Remover, 100% 66 A	TCA, pure	20	В
tert-Butyl alcohol, pure ^{1,2} Tetrachlorodifluoroethane (Freon BF) ² Tetrahydrofuran, pure 20 X Tetrahydrofuran, pure 50 X Thionyl Chloride, pure 20 X Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 23 A Tilex Mildew Remover, 100% 66 A	•	50	Χ
Tetrachlorodifluoroethane (Freon BF) ² 20 A Tetrahydrofuran, pure 20 X Tetrahydrofuran, pure 50 X Thionyl Chloride, pure 20 X Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 23 A Tilex Mildew Remover, 100% 66 A		20	В
Tetrahydrofuran, pure 20 X Tetrahydrofuran, pure 50 X Thionyl Chloride, pure 20 X Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 23 A Tilex Mildew Remover, 100% 66 A		20	В
Tetrahydrofuran, pure 50 X Thionyl Chloride, pure 20 X Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 23 A Tilex Mildew Remover, 100% 66 A	Tetrachlorodifluoroethane (Freon BF) ²	20	Α
Thionyl Chloride, pure 20 X Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 23 A Tilex Mildew Remover, 100% 66 A	Tetrahydrofuran, pure	20	Χ
Thionyl Chloride, pure 50 X Tilex Mildew Remover, 100% 23 A Tilex Mildew Remover, 100% 66 A			X
Tilex Mildew Remover, 100% 23 A Tilex Mildew Remover, 100% 66 A	•	20	Χ
Tilex Mildew Remover, 100% 66 A	Thionyl Chloride, pure		Х
		23	Α
Tincture of lodine, pure 20 B	Tilex Mildew Remover, 100%	66	Α
	Tincture of lodine, pure	20	В

Table #3. Chemical Resistance of Polysulfone

A = Little or no interaction B = Slight interaction X = Not recommended

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¹ Elevated temperatures may reduce resistance

⁴ Room Temperature only

² Exposure to elevated stress may damage polymer

³ Prolonged exposure may reduce resistance



	- (0.5)	
Chemical	Temp (°C)	Rating
Tincture of Iodine, pure	50	Х
Toluene, pure	20	Χ
Toluene, pure	50	Х
Tomato juice	20	Α
Transmission oil	20	Α
Tribromomethane, pure	20	Χ
Tribromomethane, pure	50	Х
Tributyl Citrate, pure	20	В
Tributyl Citrate, pure	50	X
Trichloroacetic acid, 25%	20	Α
Trichloroacetic Acid, pure	20	В
Trichloroacetic Acid, pure	50	Χ
Trichlorobenzene	20	X
Trichloroethane, pure	20	Χ
Trichloroethane, pure	50	Χ
Trichloroethylene, pure	20	Χ
Trichloroethylene, pure	50	Χ
Trichlorofluoroethane (Freon TF)	20	Α
Triethylamine	20	Χ
Triethylene Glycol, pure	20	Α
Triethylene Glycol, pure	50	В
Triphenylphosphite	20	Χ
Tripropylene Glycol, pure	20	Α
Tripropylene Glycol, pure	50	Α
Tris Buffer Solution, pH 11, pure	20	В
Tris Buffer Solution, pH 11, pure	50	В
Tris Buffer Solution, pH 7.0, pure	20	В
Tris Buffer Solution, pH 7.0, pure	50	В
Trisodium Phosphate, pure	20	В
Trisodium Phosphate, pure	50	В
Turpentine	20	Χ
Ultra Chlorox, 100%	23	Χ
Ultra Chlorox, 100%	66	Χ
Undecyl Alcohol, pure	20	В
Undecyl Alcohol, pure	50	В
Urea	20	Α
Urea, 6N	20	Χ
Urea, pure	20	В
Urea, pure	50	В
Varsol ²	20	Α
Vinyl Cyanide, pure	20	Χ
Vinyl Cyanide, pure	50	Χ
Vinylidene chloride	20	Χ
Water	20	Α
Wetting Agent (Tergitol 7), 100%	22	Α
White Spirits, pure	20	В

Chemical	Temp (°C)	Rating
White Spirits, pure	50	В
Xylene, pure	20	Χ
Xylene, pure	50	Χ
Zinc chloride, saturated	20	Α
Zinc Stearate, pure	20	Α
Zinc Stearate, pure	50	Α

Table #3. Chemical Resistance of Polysulfone

¹ Elevated temperatures may reduce resistance

⁴ Room Temperature only

² Exposure to elevated stress may damage polymer

³ Prolonged exposure may reduce resistance