

## TABLA DE RESISTENCIA QUIMICA DE LAS MEMBRANAS TPO TEXSA

A: No existe ningún tipo de daño

B: Sirve en la gran mayoría de aplicaciones, pero para contactos permanentes se recomienda realizar pruebas.

C: El TPO Texsa funciona si los contactos con estos líquidos son por tiempos cortos (menores a 5 minutos) e intermitentes.

D: No se recomienda el uso

Environment	Concentration %	Temperature °F (°C)	
		70 (21)	140 (60)
Acetic acid (glacial)	97	A	B
Acetic acid	50	A	A
Acetic acid	40	A	A
Acetic acid	10	A	A
Acetone		A	A
Acetophenone		B	B
Acriflavine (2% soln in H <sub>2</sub> O)	2	A	A
Acrylic emulsions		A	A
Aircraft exhaust (gas & jet - fully burned)		A	A
Airport environment fumes & gases		A	A
Aluminum chloride		A	A
Aluminum fluoride		A	A
Aluminum sulfate		A	A
Alums (all types)		A	A
Ammonia gas (dry)		A	A
Ammonia (aqueous)	30	A	--
Ammonium carbonate		A	A
Ammonium chloride		A	A
Ammonium fluoride	20	A	A

Environment	Concentration %	Temperature °F (°C)	
		70 (21)	140 (60)
Ammonium hydroxide	10	A	A
Ammonium nitrate		A	A
Ammonium persulfate		A	A
Ammonium sulfate		A	A
Ammonium sulfide		A	A
Ammonium thiocyanate		A	A
Amyl acetate		B	C
Amyl alcohol		A	B
Amyl chloride		C	C
Aniline		A	A
Animal fat / grease		A	B
Anisole		B	B
Antimony chloride		A	A
Aqua regia		**C	**C
Aviation gasoline (80 to 110 octane)		C	D
Aviation turbine fuel		C	D
Barium carbonate		A	A
Barium chloride		A	A
Barium hydroxide		A	A
Barium sulfate		A	A
Barium sulfide		A	A
Beer		A	A
Benzene		C	D
Benzoic acid		A	A

Environment	Concentration %	Temperature °F (°C)	
		70 (21)	140 (60)
Benzyl alcohol		A	A
Bismuth carbonate		A	A
Borax		A	A
Boric acid		A	A
Brine		A	A
Bromine liquid		D	--
Bromine water		**C	--
Butyl acetate		C	C
Butyl alcohol		A	--
Calcium carbonate		A	A
Calcium chlorate		A	A
Calcium chloride	50	A	A
Calcium hydroxide		A	A
Calcium hypochlorite bleach	20	A	B
Calcium nitrate		A	A
Calcium phosphate	50	A	--
Calcium sulfate		A	A
Calcium sulfite		A	A
Carbon dioxide (dry)		A	A
Carbon dioxide (wet)		A	A
Carbon disulfide		B	C
Carbon monoxide		A	A
Carbon tetrachloride		C	C
Carbonic acid		A	A

Environment	Concentration %	Temperature °F (°C)	
		70 (21)	140 (60)
Castor oil		A	--
Cetyl alcohol		A	--
Chlorine (gas)		D	D
Chlorobenzene		C	C
Chloroform		C	D
Chlorosulfonic acid		D	D
Chrome alum		A	A
Chromic/sulfuric acid		D	D
Chromic acid	80	**B	--
Chromic acid	50	**B	**B
Chromic acid	10	**B	**B
Cider		A	A
Citric acid	10	A	A
Copper Chloride		A	A
Copper cyanide		A	A
Copper nitrate		A	A
Copper fluoride		A	A
Copper sulfate		A	A
Cottonseed oil		A	B
Cuprous chloride		A	A
Cyclohexanol		A	B
Cyclohexanone		B	C
Decalin		C	C
Detergents	2	A	A

Environment	Concentration %	Temperature °F (°C)	
		70 (21)	140 (60)
Developers (photographic)		A	A
Dibutyl phthalate		B	C
Dichloroethylene		C	--
Diethanolamine		A	A
Diisooctyl phthalate		B	C
Emulsifiers		A	A
Ethyl acetate		B	B
Ethyl alcohol	96	A	A
Ethylene glycol		A	A
Ethanolamine		A	A
Ethyl ether		C	--
Ethyl chloride		C	C
Ethylene dichloride		B	--
Ethylene oxide		B	--
Fatty acids (C <sub>6</sub> )		A	A
Ferric chloride		A	A
Ferric nitrate		A	A
Ferric sulfate		A	A
Ferrous chloride		A	A
Ferrous sulfate		A	A
Fluorosilicic acid		A	A
Formaldehyde	40	A	A
Formic acid		A	--
Formic acid	10	A	A

Environment	Concentration %	Temperature °F (°C)	
		70 (21)	140 (60)
Fructose		A	A
Fruit juices		A	A
Furfural		C	C
Gasoline (the higher the octane the greater the affect)		C	D
Gas liquor		C	--
Gear box oil		B	C
Gelatin		A	A
Glucose	20	A	A
Glycerin		A	A
Glycol		A	A
Grease - lubricating (petroleum based)		B	C
Hexane	100	C	D
Hydrobromic acid	50	**B	**C
Hydrochloric acid	30	A	A
Hydrochloric acid	20	A	A
Hydrochloric acid	10	A	A
Hydrochloric acid	2	A	A
50-50 Hydrochloric - Nitric Acid		**B	**D
Hydrofluoric acid	40	A	--
Hydrofluoric acid	60	**B	**C
Hydrogen peroxide	30	A	B
Hydrogen peroxide	10	A	B
Hydrogen peroxide	3	A	A
Hydrogen chloride gas (dry)		A	A

Environment	Concentration %	Temperature °F (°C)	
		70 (21)	140 (60)
Hydrogen sulfide		A	A
Hydroquinone		A	A
Inks		A	A
Iodine tincture		A	--
Isopropyl alcohol		A	A
Iso-octane		C	D
Jet Fuel (kerosene based)		C	D
Kerosene		C	D
Ketones		A	--
Lactic acid	20	A	A
Lanolin		A	A
Lead acetate		A	A
Linseed oil		A	A
Lubricating oil (petroleum based)		B	C
Magenta dye (aqu. solution)	2	A	A
Magnesium carbonate		A	A
Magnesium chloride		A	A
Magnesium hydroxide		A	A
Magnesium nitrate		A	A
Magnesium sulfate		A	A
Magnesium sulfite		A	A
Meat juices		A	A
Mercuric chloride	40	A	A

Environment	Concentration %	Temperature °F (°C)	
		70 (21)	140 (60)
Mercuric cyanide		A	A
Mercury		A	A
Mercurous nitrate		A	A
Methyl ethyl ketone		A	B
Methyl alcohol		A	A
Methylene chloride		A	--
Milk and its products		A	A
Mineral oil		B	C
Molasses		A	A
Motor oil (conventional)		B	C
Motor oil (synthetic)		B	C
Naphthalene		A	A
Nickel chloride		A	A
Nickel nitrate		A	A
Nickel sulfate		A	A
Nitric acid	Fuming	D	D
Nitric acid	70	**C	D
Nitric acid	60	**C	D
Nitric acid	10	A	A
50-50 Nitric - Hydrochloric Acid		**C	D
50-50 Nitric - Sulfuric Acid		**C	D
Nitrobenzene		A	A
Oleic acid		A	B
Olive oil		A	A



Environment	Concentration %	Temperature °F (°C)	
		70 (21)	140 (60)
Oxalic acid (aqueous)	50	A	B
Paraffin		A	B
Paraffin wax		A	A
Petrol (gasoline)		C	D
Phenol		A	A
Phosphoric acid	95	A	B
Plating solutions, brass		A	A
Plating solutions, cadmium		A	A
Plating solutions, chromium		A	A
Plating solutions, copper		A	A
Plating solutions, gold		A	A
Plating solutions, indium		A	A
Plating solutions, lead		A	A
Plating solutions, nickel		A	A
Plating solutions, rhodium		A	A
Plating solutions, silver		A	A
Plating solutions, tin		A	A
Plating solutions, zinc		A	A
Petroleum ether (B.P. 100-140EC)		C	D
Potassium bicarbonate		A	A
Potassium borate	1	A	A
Potassium bromate	10	A	A
Potassium bromide		A	A
Potassium carbonate		A	A

Environment	Concentration %	Temperature °F (°C)	
		70 (21)	140 (60)
Potassium chlorate		A	A
Potassium chloride		A	A
Potassium chromate	40	A	A
Potassium cyanide		A	A
Potassium dichromate	40	A	A
Potassium ferri/ferrocyanide		A	A
Potassium fluoride		A	A
Potassium hydroxide	50	A	A
Potassium hydroxide	10	A	A
Potassium nitrate		A	A
Potassium perborate		A	A
Potassium perchlorate	10	A	A
Potassium permanganate	20	A	A
Potassium sulfate		A	A
Potassium sulfide		A	A
Potassium sulfite		A	A
Propyl alcohol		A	A
Pyridine		A	--
Silicone oil		A	A
Soap solution (concentrated)		A	A
Sodium acetate		A	A
Sodium bicarbonate		A	A
Sodium bisulfate		A	A
Sodium bisulfite		A	A

Environment	Concentration %	Temperature °F (°C)	
		70 (21)	140 (60)
Sodium borate		A	A
Sodium bromide oil solution		A	A
Sodium carbonate		A	A
Sodium chlorate		A	A
Sodium chloride		A	A
Sodium chlorite	2	A	A
Sodium chlorite	5	A	A
Sodium chlorite	10	A	A
Sodium chlorite	20	A	A
Sodium cyanide		A	A
Sodium dichromate		A	A
Sodium ferricyanide		A	A
Sodium ferrocyanide		A	A
Sodium fluoride		A	A
Sodium hydroxide	50	A	A
Sodium hydroxide	10	A	A
Sodium hypochlorite	20	A	B
Sodium nitrate		A	A
Sodium nitrate		A	A
Sodium silicate		A	A
Sodium sulfate		A	A
Sodium sulfide	25	A	A
Sodium sulfite		A	A
Stannous chloride		A	A
Stannic chloride		A	A

Environment	Concentration %	Temperature °F (°C)	
		70 (21)	140 (60)
Starch		A	A
Sulfates of calcium and magnesium		A	A
Sulfates of potassium and sodium		A	A
Sulfur		A	A
Sulfuric acid	98	**C	D
Sulfuric acid	60	B	C
Sulfuric acid	50	B	C
Sulfuric acid	10	A	A
50-50 Sulfuric - Nitric Acid		**C	D
Sugars and syrups		A	A
Sulfamic acid		A	A
Tallow		A	B
Tannic acid	10	A	A
Tartaric acid		A	A
Tetrahydrofuran		C	D
Tetralin		C	C
Toluene		C	D
Transformer oil		B	C
Trichloroacetic acid	10	A	A
Trichloroethylene		C	C
Triethanolamine		A	A
Turpentine		C	C
Urea		A	A
Urine		A	A

Environment	Concentration %	Temperature °F (°C)	
		70 (21)	140 (60)
Vaseline		A	A
Vegetable oils (general)		A	B
Vinegar		A	A
Water (distilled, soft, hard and vapor)		A	A
Wet chlorine gas		--	D
Whisky		A	A
White paraffin		A	B
White spirit		B	C
Wines		A	A
Xylene		C	D
Yeast		A	A
Zinc chloride		A	A
Zinc oxide		A	A
Zinc sulfate		A	A