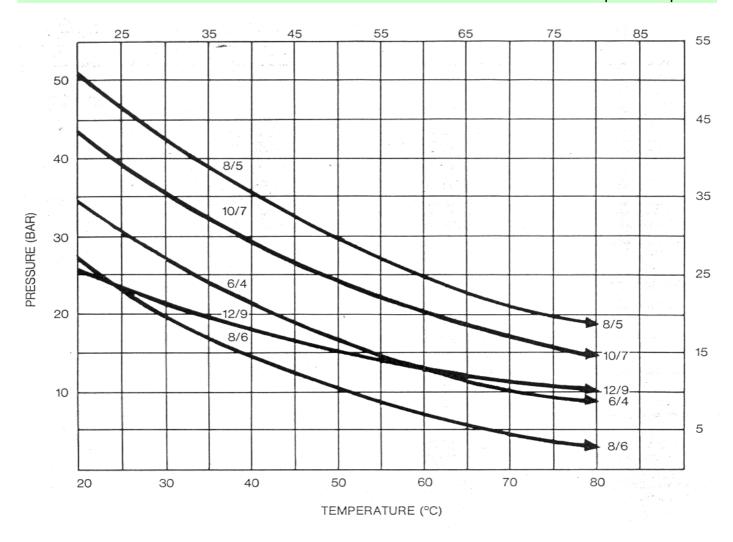
Туре	Applications Usual Service and Temperature Range	Performance data Construction/ conformances				
Poly-Flo, PE (NSF Approved) Linear Low Density Polyethylene Tubing	For pneumatic lines, instrumentation systems, water piping and limited food service. Temperature range:	Resists most solvents and chemicals. Withstands more than 500 hours in Igepal solution.	Natural: Federal Spec:	ASTM D-1248, Type 1, Class A, Category 3 LP390C, Type 1, Class L, Grade 2, Category 3		
DAYED: POLY-FLO	-80°F to + 175°F		Colors:	ASTM D-1248, Type 1, Class B, Category 3		
			Federal Spec:	LP 370C Type 1, Class L, Grade 2, Category 3		
			Flexible tubing			
Poly-Flo, P Black (Non-NSF Approved) Linear Low Density Polyethylene Tubing	For pneumatic lines, instrumentation systems and water piping. Temperature range: -80°F to + 175°F	Resists most solvents and chemicals. Withstands more than 500 hours in Igepal solution.	Natural: Federal Spec:	ASTM D-1248, Type 1, Class C, Category 4 LP-390C, Type 3, Class L, Grade 2,		
DAYCO: POLY-FLO*		ar gopar coluton.	Flexible tubing Black tubing	Category 4 offers outstanding resistance to sunlight		
Poly-Flo, PF Black (Non-NSF Approved) Flame Retardent Tubing	For heating control systems in commercial building, chemical conduit, data control equipment systems.	Highest resistance to environ- mental stress cracking of all regular polyethylene resins.	Flammability characteristics:	Maximum allowable burner rate for PF tubing=3.9 cm/min		
Linear Low Density Polyethylene Tubing DAYCO: POLYFLO®	Ideal in gas and liquid conducting applications.	Withstands more than 500 hours in Igepal solution.	Flexible tubing	per ASTM D635		
V	Temperature range: -80°F to + 175°F					

"TP POI		ETH.	ANE					
TUDE		PRESSURE BURST						NIMUM END ADIUS
TUBE -	psi	bar	mm	inch				
22	400	27.5	10	0.39				
33	400	27.5	15	0.59				
44	400	27.5	25	0.98				
55	400	27.5	25	0.98				
66	400	27.5	30	1.18				
88	400	27.5	40	1.57				
4	400	27.5	15	0.59				
6	400	27.5	18	0.71				
8	400	27.5	20	0.79				
10	400	27.5	25	0.98				
12	400	27.5	35	1.38				

Burst pressure/temperature



Characteristics

- · Has great dimensional stability
- High molecular weight of Poly-Flo polyethylene provides greater strength, more uniform structure, better resistance to the elements
- · Resists most solvents and chemicals
- Is not attacked by vermin, will not support fungus
- Exposure to sunlight: black tubing should be used in installations where the tubing is exposed to sunlight due to the degrading effect on nearly all types of thermoplastic tubing.

General Information

Thermoplastic Chemical Resistance Chart, tested at 23 °C

The information given below is based on reliable test results. Care should be taken to use this data as a guide only, and to take into account such variables as temperature, concentration and fluid contamination. Each application should be tested prior to its use in commercial systems. All ratings are given at 73° F. Contact Imperial Eastman for high temperature applications.

Chloroform

D

В

D

D

Key to Ratings:

A = Excellent. Little or no swelling or softening.

B = Good. Swelling or softening is moderate.

C = Fair. Conditional service may be expected.

D = Unsatisfactory. Not recommended.

NT = Not tested.

	PONFIO	Impolene	wo seal	87C		Pohtio	Impolene	tho: Seal	PAC
	80	lu.	42	8,		8 °	Iku	42	8,
Α		_	-	_	Chocolate Syrup	A	A	A	В
Acetaldehyde	D	В	В	D D	Chromic Acid	В	NT	В	C
Acetate solvents-crude	B B	A A	A A	D	Citric Acid Coke Oven Gas	A B	A A	A	A B
Acetate solvents-pure Acetic Acid 20%	A	A	В	В	Copper Salts	В	A	A A	A
Acetic Acid 20% Acetic Acid 50%	Ä	Ä	C	В	Copper Salts Copper Sulfate	В	Ä	Ä	Â
Acetic Acid-pure	В	A	Ď	Ď	Core Oils	В	A	A	ŃŤ
Acetone	D	A	Ā	Ď	Cottonseed Oil	Ā	A	A	В
Acetophenone	В	Α	NT	D	Creosote	D	A	D	D
Acetylene	В	Α	Α	D	Cyclohexanol	С	Α	В	D
Air	Α	Α	Α	Α	Cyclohexanone	D	В	В	D
Alcohols	Α	Α	Α	С					
Aluminum Chloride	Α	Α	D	Α	D				
Aluminum Sulfate	A	A	A	Α	Dibutyl Phthalate	С	Α	A	D
Alums	Α	Α	С	Α	Dichloroethylene	NT	A	Ċ	NT
Ammonia (Aqueous,					Dioxane	D	С	Α	D
liquid and cold gas) Ammonium Acetate	Α	Α	Α	Α	E				
Ammonium Carbonate	A	A	В	A	Ethers	D	D	Α	D
Ammonium Chloride	Ä	Ä	D	Ä	Ethyl Acetate	A	A	Ä	D
Ammonium Hydroxide	A	A	Ā	В	Ethyl Alcohol 40%	В	A	Ď	D
Ammonium Nitrate	A	A	В	В	Ethylene Glycol	Ā	A	Ā	Ā
Ammonium Phosphate	A	A	Ā	Ā	_a.y.c.ic c.ycc.				
Ammonium Sulfate	Α	Α	В	В	F				
Amyl Acetate	В	В	В	D	Ferric Chloride	Α	Α	D	Α
Amyl Alcohol	В	В	Α	В	Ferric Sulfate	Α	Α	Α	Α
Amyl Chloride	D	D	Α	D	Ferrous Chloride	В	Α	Α	Α
Aniline	Α	В	C	D	Ferrous Sulfate	Α	Α	Α	Α
Asphalt	Α	Α	Α	D	Formaldehyde	В	В	A	В
D					Formic Acid	A	A	D	С
B Barium Salts	٨	Α	۸	۸	Freon	C D	NT	NT C	D D
Beer	A A	A	A A	A A	Furfural	D	D	C	D
Beet Sugar Liquors	Ä	Ä	Ä	NT	G				
Benzaldehyde	Ď	A	A	D	Gasoline (sour)	D	D	Α	D
Benzene or Benzol	Ď	В	A	Ď	Gasoline (refined)	Ď	Ď	A	Ď
Benzoic Acid	Ā	Ā	A	Ā	Gelatin	Ā	Ā	A	Ā
Borax	Α	Α	В	Α	Glucose	Α	Α	Α	Α
Boric Acid	Α	Α	С	Α	Glue	Α	Α	С	Α
Brandy	Α	Α	В	NT	Glycerin or Glycerol	Α	Α	Α	Α
Bromine Water,	_	_	_	_					
saturated	D	D	D	D	Н	_	_		_
Butane	C	В	A	D	Hydraulic Fluid	D	С	Α	D
Butter But d Apototo	A D	A C	A B	B A	Hydraulic Fluid	۸	۸	Α	NT
Butyl Acetate	D	C	Б	А	(water/glycol) Hydrochloric Acid 30%	A A	A A	D	A
С					Hydrochloric Acid 50% Hydrochloric Acid 50%	A	A	D	A
Calcium Bisulfite	Α	Α	D	Α	Hydrocyanic Acid	Ä	Ä	D	В
Calcium Hypochlorite	A	A	D	В	Hydrofluoric Acid (dil.)	Α	A	Č	Ā
Calcium Salts	Α	Α	Α	Α	Hydrofluoric Acid 38-40%	Α	Α	D	В
Cane Sugar Liquors	Α	A	Α	A	Hydrofluoric Acid 50%	A	Α	D	В
Carbon Dioxide	Α	Α	Α	Α	Hydrogen Fluoride	В	Α	D	D
Carbon Dioxide (dry)	Α	Α	В	Α	Hydrogen	Α	Α	Α	Α
Carbon Dioxide (wet)	Α	Α	C	A	Hydrogen Peroxide	Α	Α	D	В
Carbon Tetrachloride	D	C	D	D	Hydrogen Sulfide (dry)	A	A	С	A
Carrot	A	A	A	A	Hydrogen Sulfide (wet)	Α	Α	С	Α
Chlorine	D	D	D	D					

Thermoplastic Chemical Resistance Chart II (tested at 23 °C)

	POHFIO	Impdere	Hylo Seal	₹4°C		, dy-Flo	Impolene	Who seals	₽ ^{JC}
	9 0	Iu.	43	8-		२ ०	W.	42,	Q.
I lodine (in alcohol)	D	Α	Α	Α	R Rosin (light)	Α	Α	Α	D
Isopropanol	В	Â	Â	NT					_
· ·					S Sauerkraut	Α	Α	Α	Α
K Karo Syrup	Α	Α	Α	Α	Shellac	Α	Α	Α	D
raio Cyrup	,,	,,	,,		Silver Nitrate	В	A	A	В
L .	_			_	Soap Solutions Sodium Bicarbonate	В А	A A	A A	B A
Lacquer Solvents Lactic Acid	B A	A A	A A	D B	Sodium Bisulfate	B	Â	ĥ	Ä
Lead Acetate	Â	Â	Â	В	Sodium Bisulfite	Α	Α	Ą	A
Lime Sulfur	Α	Α	Α	NT	Sodium Borate Sodium Carbonate	A A	A A	A A	A A
Linseed Oil	D	Α	Α	NT	Sodium Carbonate Sodium Chlorate	B	Â	ĉ	B
М					Sodium Chloride	Ā	A	Α	В
Machine Oil	С	Α	Α	В	Sodium Cyanide	A	A	A	A
Magnesium Chloride	Α	Α	Α	Ą	Sodium Hydroxide Sodium Hypochlorite	C A	A A	B D	A B
Magnesium Hydroxide	A	A	A A	A A	Sodium Metaphosphate	Â	Â	Ä	В
Magnesium Sulfate Maleic Acid	A A	A NT	Ĉ	NT	Sodium Nitrate	A	Α	Α	Α
Manganese Salts	Ä	A	Ä	Α	Sodium Perborate	A	A	A	A
Mayonnaise	A	Α	A	A	Sodium Phosphate Sodium Silicate	В А	A A	C A	A A
Mercuric Chloride	C A	C A	C A	D B	Sodium Sulfate	Â	Â	Â	Â
Mercury Methanol	A	Ä	B	В	Sodium Sulfide	Α	Α	Α	Α
Methylene Chloride	Ĉ	Ĉ	č	Ď	Sodium Sulfite	Ą	A	A	A
Milk	Α	A	Ą	Ą	Sodium Thiosulfate (hypo) Stearic Acid	A C	A A	A A	B A
Molasses	Α	Α	Α	Α	Succinic Acid	Ă	Â	Â	Â
N					Sulfate Liquors	. A	Α	D	Α
Natural Gas	С	В	Α	В	Sulfur	В	C	A	В
Nickel Chloride	В	A	A	A	Sulfur Chloride Sulfur Dioxide	B A	C A	D D	C A
Nickel Salts	A	A A	A D	A A	Sulfuric Acid 10%	Â	Â	Ď	B
Nickel Sulfate Nitric Acid (dil.)	A B	A	D	B	Sulfuric Acid 10-75%	С	Α	D	C
Nitric Acid (med. conc.)	B	Ä	D	D	Sulfuric Acid 75-98%	D	Ç	D	D
Nitric Acid (conc.)	D	A	D	D	Sulfurous Acid	Α	Α	D	В
Nitrobenzene	D D	B A	C B	D A	т				
Nitrogen Oxides Nitrous Acids	NT	ĉ	Ď	Â	Tannic Acid	В	Α	В	Α
		_			Tar	D	A	В	A
0			ь.	_	Tartaric Acid Tetrahydrofurane	A D	A B	A B	A D
Oils, Vegetable Oleic Acid	A D	A A	B A	D D	Tetralin	Ď	Ď	Ā	NT
Olive Oil	Ā	Â	Ä	Ď	Thiopen	D	В	A	NT
Oxalic Acid	A	Α	Α	A	Toluene or Toluol	C A	B A	A A	D A
Oxygen Gas	Α	Α	Α	Α	Tomato Trichlorethylene	ô	ĥ	ĉ	Ď
Р					Turpentine	D	В	Α	В
Palmitic Acid	В	Α	D	C D	U				
Perchloric Acid	В	В	D	D	Urea	Α	Α	Α	В
Petroleum Oils (sour) Pertoleum Oils (refined)	B B	B B	B B	B B					
Phenol	NT	NT	Ď	Ď	V Varnish	Α	Α	Α	D
Phosphoric Acid 25%	Α	Α	Α	Α	Varnisir Vinegar	Â	Â	Â	Ā
Phosphoric Acid 25-50%	A	A	В	A	J				
Phosphoric Acid 50-85% Picric Acid	A D	A A	C D	A D	W Water (fresh)	Α	Α	Α	Α
Potassium Carbonate	Ā	Â	č	B	Water (sait)	Â	Â	Â	Â
Potassium Chlorate	В	Α	Α	В	Whiskey	Α	A	A	Α
Potassium Chloride	A	A	A	A	Wines	Α	Α	Α	Α
Potassium Hydroxide Potassium Iodide	A A	A A	B A	B B	x				
Potassium Sulfate	Â	Α	Α	В	Xylene or Xylol	D	С	В	D
Propane	C	D	В	Α	z				
Pyridine	С	Α	С	D	Zinc Chloride	Α	Α	Α	Α
					Zinc Sulfate	В	Α	D	NT