ULTEM – PEI (Poly-Ether-Imide) Chemical Resistance Chart*

	Code	Chemical
ACIDS	1A	ACETIC 10%
	1A	ACETIC 50%
	1A	ACETIC 100%
	1At	BENZOIC
		BENZENESULFONIC
		CHLOROSULFONIC
	1A	CHROMIC 10%
	1D	CHROMIC 50%
		CHROMIC 100%
	1Ak	CITRIC
	1Af	FORMIC
		HYDROBROMIC 10%
		HYDROBROMIC 50%
		HYDROBROMIC 100%
	1A	HYDROCHLORIC 10%
	1A	HYDROCHLORIC 50%
	1A	HYDROCHLORIC 100%
		HYDROFLUORIC 10%
	1A	HYDROFLUORIC 50%
		HYDROFLUORIC 100%
	1A	NITRIC 10%
	1A	NITRIC 50%
		FUMING NITRIC
	1Af	OXALIC
	4	PHENOL 10%
		PHENOL 50%
		PHENOL 100%
		PHTHALIC ANHYDRIDE
	1A	PHOSPHORIC 10%
	1A	PHOSPHORIC 50%
	1A	PHOSPHORIC 100%
		SUCCINIC
	1A	SULFURIC 10%
	1A	SULFURIC 50%
	4	FUMING SULFURIC
BASES	1A	AMMONIUM HYDROXIDE 10%
		AMMONIUM HYDROXIDE 50%
	1A	AMMONIUM HYDROXIDE 100%
		ANILINE
		BARIUM HYDROXIDE
	1D	CALCIUM HYDROXIDE
		HEXAMETHYLENE DIAMINE
		MAGNESIUM HYDROXIDE
		PROPYL AMINE
		SODIUM CARBONATE
	1A	SODIUM HYDROXIDE 10%
		SODIUM HYDROXIDE 50%
		SODIUM HYDROXIDE 100%
SALTS		AMMONIUM NITRATE
		CALCIUM PHOSPHATE
		CALCIUM SULFATE
		FERROUS CHLORIDE
		SODIUM ACETATE
		SODIUM CHLORATE
	1A	SODIUM CHLORIDE

	Code	Chemical
HALOGENS	5	BROMINE, LIQUID
	5	CHLORINE, LIQUID
	1A	IODINE, LIQUID
OXIDANTS		BENZOYL PEROXIDE
		CHLORINE DIOXIDE
	1A	HYDROGEN PEROXIDE 30%
	1A	HYDROGEN PEROXIDE 90%
		NITROGEN DIOXIDE
	1E	OZONE
		POTASSIUM CHLORATE
		POTASSIUM PERMANGANATE
	1A	SODIUM HYPERHCLORITE
		SULPHER DIOXIDE
ALIPHATIC HYDROCARBONS		ACETYLENE
		BUTADIENE
		BUTYLENE
	1A	GASOLINE
	1A	KEROSENE
	1A	MINERAL OILS
	1A	NAPTHA
AROMATIC HYDROCARBONS		BENZENE
	1A	NAPTHLENE
	1A	TOLUENE
HALOGENATED HYDROCARBONS		ALLYL CHLORIDE
	1A	CARBON TETRACHLORIDE
		CHLOROBENZENE
		DICHLORETHYLENE
		ETHYLENE BROMIDE
	1A	FREON, WET
	1A	FREON, DRY
OXYGENATED SOLVENTS & ESTERS		ACETONE 10%
		ACETONE 50%
	1A	ACETONE 100%
		ACETOPHENONE
		DIMETHYL FORMANIDE
	1A	ETHYL ETHER
	1A	ETHYL ACETATE
		ETHYL OXIDE
	1A	EHTYLENE GLYCOL
	1A	GLYCERINE
		METHYL CELLOSOLVE
		METHYL ETHYL KETONE
		TRIETHYL PHOSPHATE
GASSES		AMMONIA, ANHYDROUS
		CARBON DIOXIDE
		HYDROGEN
		HYDROGEN SULFIDE
		METHANE

ULTEM – PEI (Poly-Ether-Imide) Chemical Resistance Chart KEY*

CODE EXPLANATION

RESISTANCE		TEMPERATURE ° F	
1	EXCELLENT RESISTANCE TO CHEMICAL ATTACK	A	70 °
		B	100 °
2	GOOD RESISTANCE TO CHEMICAL ATTACK -	C	120 °
	MAY HAVE SLIGHT SWELLING OR LOSS OF PROPERTIES	D	140 °
		E	150 °
3	MARGINAL RESISTANCE TO CHEMICAL ATTACK -	F	170 °
	MAY CRACK, SWELL OR DISSOLVE. SUGGEST TESTING	G	180 °
		H	200 °
4	NOT RECOMMENDED	I	212 °
		J	225 °
5	NO DATA	K	250 °
		L	275 °
		M	300 °
		N	480 °
		O	500 °
		P	575 °
		Q	BOILING

a	0.1
b	1
c	2
d	3
e	4
f	10
g	12 ½
h	15
I	20
j	30
k	40
ι	50
m	60

n	98
o	2-5
p	5 15
q	50-75
r	dilute
s	wet
t	dry
u	saturated
v	concentrated
w	gas
x	100
y	70
z	vapors

* Information Provided by WESTLAKE PLASTICS COMPANY