



PEEK (Poly-Ether-Ether-Ketone) Chemical Resistance Chart*

	Code	Chemical	
ACIDS	1A	ACETIC 10%	
	1D	ACETIC 50%	
	1D	ACETIC 100%	
	1I	BENZOIC	
		BENZENESULFONIC	
	1A	CHLOROSULFONIC	
	1A	CHROMIC 10%	
	1Im	CHROMIC 50%	
	1I	CHROMIC 100%	
	1I	CITRIC	
	1I	FORMIC	
		HYDROBROMIC 10%	
	5	HYDROBROMIC 50%	
		HYDROBROMIC 100%	
	1I	HYDROCHLORIC 10%	
		HYDROCHLORIC 50%	
	1A	HYDROCHLORIC 100%	
		HYDROFLUORIC 10%	
	5	HYDROFLUORIC 50%	
	5	HYDROFLUORIC 100%	
	5	NITRIC 10%	
	1I	NITRIC 50%	
	4	FUMING NITRIC	
	2I	OXALIC	
	1D	PHENOL 10%	
	1D	PHENOL 50%	
	1D	PHENOL 100%	
	1I	PHTHALIC ANHYDRIDE	
	1I	PHOSPHORIC 10%	
	1I	PHOSPHORIC 50%	
1I	PHOSPHORIC 100%		
	SUCCINIC		
1A	SULFURIC 10%		
1I	SULFURIC 50%		
4	FUMING SULFURIC		
BASES	1Av	AMMONIUM HYDROXIDE 10%	
		AMMONIUM HYDROXIDE 50%	
		AMMONIUM HYDROXIDE 100%	
	1I	ANILINE	
		BARIUM HYDROXIDE	
	1D	CALCIUM HYDROXIDE	
	5	HEXAMETHYLENE DIAMINE	
		MAGNESIUM HYDROXIDE	
		PROPYL AMINE	
	1I	SODIUM CARBONATE	
	1Av	SODIUM HYDROXIDE 10%	
	1A	SODIUM HYDROXIDE 50%	
		SODIUM HYDROXIDE 100%	
	SALTS		AMMONIUM NITRATE
			CALCIUM PHOSPHATE
		CALCIUM SULFATE	
1I		FERROUS CHLORIDE	
		SODIUM ACETATE	
		SODIUM CHLORATE	
		SODIUM CHLORIDE	

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



PEEK (Poly-Ether-Ether-Ketone) 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 - MAY HAVE SLIGHT SWELLING OR LOSS OF PROPERTIES	C	120 °
		D	140 °
		E	150 °
3	MARGINAL RESISTANCE TO CHEMICAL ATTACK - MAY CRACK, SWELL OR DISSOLVE. SUGGEST TESTING	F	170 °
		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
l	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