



CHEMICAL RESISTANCE

Page : 1 / 4
Revision : 001
Rev. Date : May 2014

4TECH[®] Polyphthalamide (PPA)

Chemical Agent	Concentration (%)	Temperature (°C)	Resistance
Acetaldehyde	40	23	-
Acetic Acid	5	23	-
Acetic Acid	10	23	-
Acetic Acid	25	23	-
Acetic Acid	25	60	-
Acetic Acid	50	23	-
Acetic Acid	80	23	-
Acetic Acid	95	23	0
Acetone	100	23	2
Acetone	100	50	-
Acetylene	100	23	-
Acrylic Acid	100	60	-
Alkyl Alcohol	100	23	-
Alkyl Benzene	100	23	-
Alkyl Chloride	100	23	-
Alkyl Chloride	100	60	-
Amine	100	23	-
Amino Acid	100	23	-
Ammonia	25	23	-
Ammonia	100	23	2
Ammonia	100	60	-
Ammonium Chloride	25	23	-
Aniline	100	23	1
Argon	100	23	-
Benzene	100	60	2
Benzene	100	23	-
Benzoic Acid	20	23	-
Benzyl Alcohol	100	23	0
Benzylidene Aldehyde	100	23	-
Biphenyl	100	23	-
Bitumen	100	23	-
Boric Acid	10	23	-
Boron Trifluoride	100	23	-
Brake Fluid	100	23	2
Bromine	100	23	0
Bromochloromethane	100	23	-
Butane	50	23	2
Butanediol	100	23	-
Butanol	100	23	2
Butyl Acetate	100	23	-
Butyl Phthalate	100	23	-
Butyric Acid	20	23	-
Calcium Chloride	20	23	-
Calcium Hydroxide	100	23	-
Carbon Dioxide	100	23	-
Carbon Disulphide	100	23	-
Carbon Monoxide	100	23	-
Caustic Soda	30	23	-

2 – Good Resistance

1 – Limited Resistance

0 – Poor Resistance



CHEMICAL RESISTANCE

Page : 2 / 4
Revision : 001
Rev. Date : May 2014

4TECH[®] Polyphthalamide (PPA)

Chemical Agent	Concentration (%)	Temperature (°C)	Resistance
Caustic Soda	30	60	-
Caustic Soda	50	23	-
Chlorine	100	23	0
Chloroacetic Acid	10	23	-
Chlorobenzene	100	23	2
Chloroform	100	23	0
Chloromethane	100	23	-
Chlorosulphonic Acid	50	23	-
Chlorotrifluoroethane	100	23	-
Chromic Acid	3	23	-
Chromic Acid	10	23	-
Chromic Acid	50	23	-
Citric Acid	10	23	2
Cleaning Agent (Acidic)	100	23	-
Cleaning Agent (General)	100	23	-
Cresol	100	23	-
Cyclohexanol	100	23	-
Decalin	100	23	-
Dibutyl Ether	100	23	-
Dibutyl Phthalate	100	23	-
Dichlorobenzene	100	23	-
Dichloroethane	100	23	-
Diesel	100	23	-
Diethyl Ether	100	23	2
Diisopropyl Ether	100	23	-
Dimethyl Ether	100	23	-
Dimethyl Sulphate	100	23	-
Ethane	100	23	-
Ethanol	40	23	2
Ethanol	100	23	2
Ethanol	100	60	-
Ethyl Acetate	100	23	-
Ethyl Chloride	100	23	-
Ethylene	100	23	-
Ethylene Chloride	100	23	-
Ethylene Chlorohydrine	100	23	-
Ethylene Glycol	100	23	2
Ethylene Oxide	100	23	2
Fats	100	23	2
Fluorine	100	23	0
Formaldehyde	40	23	2
Formaldehyde	100	23	1
Formic Acid	10	23	1
Formic Acid	80	23	0
Formic Acid	80	60	-
Gear Oil	100	100	-
Glycerol	100	23	2
Glycol	50	100	1

2 – Good Resistance

1 – Limited Resistance

0 – Poor Resistance



CHEMICAL RESISTANCE

Page : 3 / 4
Revision : 001
Rev. Date : May 2014

4TECH[®] Polyphthalamide (PPA)

Chemical Agent	Concentration (%)	Temperature (°C)	Resistance
Glycol	100	23	2
Heating Oil	100	23	-
Helium	100	23	-
Helium	100	60	-
Heptane	100	23	2
Hexachlorobenzene	100	60	-
Hexane	100	23	-
Hydraulic Fluid	100	80	0
Hydrochloric Acid	5	23	0
Hydrochloric Acid	20	23	0
Hydrofluoric Acid	50	23	-
Hydrogen	100	23	-
Hydrogen Chloride	100	23	-
Hydrogen Peroxide	30	23	0
Hydrogen Sulphide	100	23	1
Isopropyl Alcohol	100	23	2
Isopropyl Alcohol	100	60	-
Kerosene	100	23	2
Ketones	100	23	-
Lactic Acid	10	23	1
Lithium Salts	10	23	-
Lubricating Oil	100	23	-
Lubricating Oil	100	23	-
Magnesium Hydroxide	100	23	-
Magnesium Salts	5	23	-
Magnesium Sulphate	10	23	-
Manganese Salts	10	23	2
Mercury	100	23	-
Methane	100	23	2
Methanol	100	23	2
Methyl Chloride	100	23	2
Methyl Formate	100	23	-
Methylamine	100	23	-
Methylethylketone	100	23	2
Mineral Oil	100	23	2
Naphthalene	100	23	-
Natural Gas	100	23	-
Nitric Acid	5	23	0
Nitric Acid	20	23	1
Nitrobenzene	100	23	-
Octane	100	23	-
Octene	100	23	-
Oxalic Acid	10	23	-
Ozone	100	23	0
Pentanol	100	23	-
Petroleum	100	23	2
Petroleum	100	60	-
Phenol	100	23	0

2 – Good Resistance

1 – Limited Resistance

0 – Poor Resistance



CHEMICAL RESISTANCE

Page : 4 / 4
Revision : 001
Rev. Date : May 2014

4TECH® Polyphthalamide (PPA)

Chemical Agent	Concentration (%)	Temperature (°C)	Resistance
Phenylethanol	100	23	-
Phthalic Acid	100	23	-
Potassium Bromide	5	23	-
Potassium Chloride	5	23	-
Potassium Dichromate	10	23	-
Potassium Hydroxide	50	23	-
Potassium Nitrate	5	23	-
Potassium Permanganate	3	23	0
Potassium Sulphate	100	23	-
Propane	100	23	2
Propionic Acid	50	23	-
Propionic Acid	100	23	-
Refridgerator Oil	100	23	2
Silicone Oil	100	23	2
Sodium Bicarbonate	15	23	-
Sodium Carbonate	5	23	-
Sodium Chlorate	10	23	2
Sodium Chloride	5	23	2
Sodium Hydroxide	10	23	2
Sodium Hydroxide	10	90	-
Sodium Hypochlorite	20	23	-
Sodium Hypochlorite	20	60	-
Steam	100	100	-
Stearic Acid	100	23	-
Stearic Acid	100	60	-
Styrene	100	23	2
Sulphur	100	23	2
Sulphur Dioxide	100	23	-
Sulphuric Acid	5	23	1
Sulphuric Acid	60	23	0
Sulphuric Acid	96	23	0
Tetrahydrofuran	100	23	-
Tetrahydronaphthaline	100	23	-
Toluene	100	23	2
Trichloroethane	100	23	1
Trichloroethylene	100	23	1
Trichloromethane	100	23	-
Turpentine Oil	100	23	-
Urea	5	23	2
Urea	25	23	2
Uric Acid	10	23	2
Vinyl Acetate	100	23	-
Water	100	23	-
Water	100	60	2
Xylene	100	100	-
Zinc Chloride	10	23	2
Zinc Chloride	10	60	-
Zinc Chloride	50	23	1

2 – Good Resistance

1 – Limited Resistance

0 – Poor Resistance