



## CHEMICAL RESISTANCE

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

### 4TECH<sup>®</sup> Polypropylene (PP)

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

2 – Good Resistance

1 – Limited Resistance

0 – Poor Resistance



## CHEMICAL RESISTANCE

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

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

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## CHEMICAL RESISTANCE

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

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

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## CHEMICAL RESISTANCE

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

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

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