

# BOSS POLYMER TECHNOLOGIES PTY LTD

## INDICATIVE CHEMICAL RESISTANCE OF PVC

### LEGEND

**R - Recommended** - No effect / attack

**M - Minor or Moderate Effect** - Slight attack, may cause swelling or surface deterioration, but with no loss of physical properties.

**S - Moderate or Severe Effect** - Parts perhaps still useful in specific limited applications.

**P - Poor Resistance** - Severe attack, causing considerable loss of properties.

**N - Not Recommended**

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CHEMICALS	CONDITIONS	UNPLASTICIZED (RIGID) PVC	PLASTICIZED PVC
Acetaldehyde	100%	N	N
Acetic Acid	Glacial	S-N	N
Acetic Acid	60%	R	R-S
Acetic Anhydride		N	N
Acids - Mineral	Concentrated	R	M
Acids - Mineral	Diluted	R	R
Acetone		N	N
Acetophenone		N	N
Adipic Acid		R-S	R-N
Alcohols		R-S	M-P
Aliphatic Hydrocarbons		R	R-M
Alkalis		R	M
Allyl Alcohol		S-N	N
Allyl Chloride		N	N
Aluminium Salts		R	R
Ammonia	Gas	R	M
Ammonia	Liquid	S-N	N
Ammonium Salts		R	R
Amyl Acetate		N	N
Amyl Alcohol		R	R
Amyl Chloride		N	N
Aniline		N	N
Aniline Hydrochloride		N	N
Aniline Sulphate		R	R
Antimony Chlorides		R	R
Aqua Regia		S-N	N
Aromatic Hydrocarbons		M-P	M-N
Barium Salts		R	R
Benzaldehyde	100%	N	N
Benzene		N	N
Benzoic Acid		R-N	R-N
Benzoyl Chloride		N	N
Benzyl Alcohol		N	N
Boric Acid		R	R
Bromine	Gas	N	N
Bromine	Liquid	N	N
Butane		R	R-P
Butanediol		N	N
Butanol		R-S	R-S
Butyl Acetate		N	N
Butyl Alcohol		R-S	R-S
Butyl Chloride		N	N
Butyraldehyde		N	N
Butyric Acid	Concentrated	N	N
Calcium Salts & Hydroxide		R	R
Carbon Dioxide		R	R
Carbon Disulphide		S-N	N
Carbonic Acid		R	R

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CHEMICALS	CONDITIONS	UNPLASTICIZED (RIGID) PVC	PLASTICIZED PVC
Carbon Monoxide		R	R
Carbon Tetrachloride		S-N	N
Cetyl Alcohol		R	R
Chloracetic Acid		R-S	N
Chlorinated Hydrocarbons			P
Chlorine		R-S	R-S
Chlorobenzene		N	N
Chloroform		N	N
Chromic Acid	Plating Solution	R	N
Copper Salts		R	R
Cresols		S-N	N
Cyclohexanol		R-N	N
Cyclohexanone		N	N
Dibutyl Phthalate		N	N
Dichloroethylene		N	N
Dichlorobenzene		N	N
Diethylether		N	N
Diethyl Ketone		R	R
Dioctyl Phthalate		N	N
Dioxane		N	N
Emulsifiers		R	R
Ether		N	N
Ethyl Acetate		N	N
Ethyl Alcohol		R	R-S
Ethyl Butyrate		N	N
Ethyl Chloride		N	N
Ethylene Chloride		N	N
Ethylene Dichloride		N	N
Ethylene Glycol		R	R
Ethylene Oxide		N	N
Fatty Acids		R	R
Ferric Salts		R	R
Ferrous Salts		R	R
Fluorine		N	N
Formaldehyde	40% aq	R	R
Formic Acid	100%	R-N	N
Furfural		N	N
Furfuryl Alcohol		N	N
Glycerine (Glycerol)		R	R
Glycol - Polyglycol		R	R
Glycol - Ethers		N	N
Hydrobromic Acid	50% aq	R	R
Hydrobromic Acid	100%	R	R
Hydrochloric Acid	10%	R	R
Hydrochloric Acid	Concentrated	R	R-S
Hydrofluoric acid	40%	R	R-S
Hydrofluoric acid	Concentrated	N	N

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CHEMICALS	CONDITIONS	UNPLASTICIZED (RIGID) PVC	PLASTICIZED PVC
Hydrogen Bromide		R	R
Hydrogen Chloride		R	R
Hydrogen Fluoride		R	R
Hydrogen Peroxide	90%	R	R
Hydrogen Sulphide		R	R
Hydroquinone		R	R
Iodine	in KI	N	N
Iso-Propyl Alcohol		R	R
Lactic Acid	100%	R-N	N
Lead Salts		R	R
Magnesium Salts & Hydroxide		R	R
Maleic Acid	Concentrated	R-S	N
Malic Acid		R	R
Mercuric Chloride		N	N
Mercury & Mercury Salts		R	R
Methyl Acetate		N	N
Methyl Alcohol	100%	R-S	R-S
Methyl Bromide		N	N
Methyl Chloride		N	N
Methyl Ethyl Ketone		N	N
Methyl Iso-Butyl Ketone		N	N
Methyl Methacrylate		N	N
Methylene Chloride		N	N
Monochlorobenzene		N	N
Naphtha		R	R
Naphthalene		R-N	N
Nickel Salts		R	R
Nitric Acid	95%	N	N
Nitric Acid	50%	R-S	R-S
Nitrobenzene		N	N
Nitrous Fumes	Moist	R-N	S-N
Octane			R
Oleic Acid		R	R
Oleum		N	N
Ozone		R	R
Petrol/Benzene Mixture	80:20%	R-N	N
Petroleum Ether			R-N
Phenol		R-S	N
Phosphates		R	R
Phosphoric Acid	95%	R	R
Phosphoric Acid	30%	R	R
Phosphorus Pentoxide		R	R
Phosphorus Trichloride		N	N
Picric Acid	(1% aqueous solution)	R	R
Potassium Salts & Hydroxide		R	R
Propylene Oxide		N	N
Salicylic Acid		R	R
Silver Nitrate		R	R

