

LLDPE - POLYETHYLENE CHEMICALS RESISTANCE TABLE

A = Resistent B = Limited resistance C = Not resistant - do not use

This table is a compilation of existing published data from leading manufacturers of polyethylene available on the web.

Before to use a rotomoulded product (tanks, bunds) check this table.

Remember that the aggressiveness of chemicals increase with the increase of temperature, of contact time, of pressure and with the plastic aging. Sunbasket srl assumes no responsibility, obligation or liability in conjunction with the use or misuse of the informations herein.

PRODUCTS	20°	60°	PRODUCTS	20°	60°
Acetaldehyde 100%	B	C	Calcium sulphide - sol.sat.	B	B
Acetic acid 10%	A	A	Carbon disulphide 100%	C	C
Acetic acid 60%	A	B	Carbon monoxide 100%	A	A
Acetic acid, glacial >96%	B	C	Carbon tetrachloride 100%	B	C
Acetic anhydride 100%	B	C	Carbonic acid	A	A
Acetone 100%	B	C	Cyclohexanol 100%	B	C
Acetylsilicacid	A	A	Cyclohexanone 100%	C	C
Aluminium chloride - sat.sol.	A	A	Citric acid - sol.sat.	A	A
Aluminium fluoride - sat.sol.	A	A	Citric acid - 10%	A	A
Aluminium sulphate - sat.sol.	A	A	Citric acid - 25%	A	A
Alums - sol.	A	A	Chlorine water - 2% sol.sat.	B	B
Ammonia, aqueous - dil.sol.	A	A	Chloroacetic acid - sol.	-	-
Ammonia, dry gas 100%	A	A	Chloroform 100%	C	C
Ammonia, liquid 100%	B	B	Chloroethanol 100%	A	A
Ammonium chloride - sat.sol.	A	A	Chrome acid 20%	A	-
Ammonium fluoride - sol.	A	A	Chrome acid 100%	-	-
Ammonium hydroxide - 30%	A	A	Copper chloride - sol.sat.	A	A
Ammonium nitrate - sat.sol.	A	A	Copper cyanide - sol.sat.	A	A
Ammonium oxalate - sat.sol.	A	A	Cresylic acid 100%	-	-
Ammonium sulphate - sat.sol..	A	A	Diesel oil	A	B
Ammonium sulphide - sol.	A	A	Diethyl ether 100%	C	C
Amyl acetate 100%	C	C	Detergents synthetic	A	A
Amyl alcohol 100%	B	B	Ethilene glyco 100%	A	A
Aniline 100%	C	C	Ethanol 40%	A	B
Arsenic acid - sat.sol.	A	A	Ethanol 90%	B	B
Ascorbic acid 10%	A	A	Ethyl acetate 100%	B	C
Barium bromide - sat.sol.	A	A	Ethyl acrylate 100%	C	C
Barium carbonate - sat.sol.	A	A	Ethyl alcohol 35%	A	A
Barium chloride - sat.sol.	A	A	Ethyl alcohol 100%	A	A
Barium hydroxide - sat.sol.	A	A	Ferric chloride - sol.sat.	A	A
Barium sulphide - sat.sol.	A	A	Ferric nitrate - sol.	A	A
Beer 100%	A	A	Ferric sulphate - sol.sat.	A	A
Benzaldehyde 100%	B	C	Ferrous chloride - sol.sat.	A	A
Benzoic acid - sat.sol.	A	A	Ferrous sulphate - sol.sat.	A	A
Borax - sat.sol.	A	A	Fluorosilicic acid 40%	A	A
Bromine liquid 100%	C	C	Formaldehyde 40%	A	A
Butanol 100%	A	A	Formic acid 50%	A	A
Butandiol 10%	A	A	Formic acid 98 -100%	A	A
Butandiol 50%	A	A	Gallic acid - sol.sat.	A	A
Butandiol 100%	A	A	Gasoline	C	C
Butyl alcohol 100%	A	A	Glycerine 100%	A	A
Butyric (acid) 100%	B	C	Glycolic acid - 30%	A	B
Calcium carbonate	A	A	Glycolic acid - sol.	-	-
Calcium chlorate - sol.sat.	A	A	Glucose - sol.sat.	A	A
Calcium chloride - sol.sat.	A	A	Hydrobromic acid 36%	A	A
Calcium hydroxide - sol.sat	A	A	Hydrobromic acid 50%	A	A
Calcium hypochlorite - sol.	A	A	Hydrobromic acid 100%	A	A
Calcium nitrate - sol.sat.	A	A	Hydrocyanic acid 10%	A	A
Calcium sulphate - sol.sat	A	A			

PRODUCTS	20°	60°	PRODUCTS	20°	60°
Hydrochloric acid - up to 36%	A	A	Potassium cyanide - sat.sol	A	A
Hydrochloric acid - up to 100%	A	A	Potassium hexacyanoferrate (III) - sat.sol.	A	A
Hydrofluoric acid 40%	A	A	Potassium hexacyanoferrate (II) - sat.sol.	A	A
Hydrofluoric acid 60%	A	B	Potassium hydrogen sulphate - sol.sat.	A	A
Hidroquinone - sol.sat.	A	A	Potassium hydrogen sulphide - sol	-	-
Hydrogen 100%	A	A	Potassium fluoride	A	A
Hydrogen peroxide 30%	A	B	Potassium hydroxide - sol.	A	A
Hydrogen peroxide 90%	A	C	Potassium hypochlorite - Sol.	A	B
Hydrogen sulphide gas 100%	A	A	Potassium nitrate	A	A
Hypochlorous acid conc.	A	A	Potassium orthophosphate	A	A
Inks	A	A	Potassium perchlorate	A	A
Lactic acid 28%	A	A	Potassium sulphate	A	A
Lactic acid - up to 100%	A	A	Potassium sulphide - sol	A	A
Lead acetate - sat.sol.	A	A	Propionic acid 50%	A	A
Lead nitrate - sat.sol.	A	A	Propionic acid 100%	A	B
Lubricating oil	A	A	Salicylic acid - sat.sol.	A	A
Magnesium carbonate - sol.sat.	A	A	Silver acetate - sat.sol	A	A
Magnesium chloride - sol.sat.	A	A	Silver nitrate - sat.sol.	A	A
Magnesium hydroxide - sol.sat.	A	A	Sodium benzoate - sat.sol.	A	A
Magnesium nitrate - sol.sat.	A	A	Sodium bromide - sat.sol.	A	A
Maleic acid - sol.sat.	A	A	Sodium carbonate - sat.sol..	A	A
Mercury chloride - sol.sat.	A	A	Sodium chlorate - sat.sol.	A	A
Mercury nitrate - sol.	A	B	Sodium chloride - sat.sol.	A	A
Methanol 100%	A	A	Sodium cyanide - sat.sol..	A	A
Milk	A	B	Sodium hexacyanoferrate (III) - sat.sol.	-	-
Motor oil	A	A	Sodium hexacyanoferrate (II) - sat.sol.	-	-
Nickel chloride - Sol.sat.	A	A	Stannic chloride - sat.sol.	A	A
Nickel nitrate - Sol.sat.	-	A	Stannous chloride - sat.sol.	A	A
Nickel sulphate - Sol.sat.	A	A	Sulphur dioxide,dry 100%	A	A
Nitric acid 25%	A	B	Sulphur trioxide 100%	C	C
Nitric acid 50%	A	B	Sulphur acid 10%	A	A
Nitric acid 70%	A	C	Sulphur acid 50%	A	A
Nitric acid 95 %	A	C	Sulphur acid 70%	A	B
Nitric acid 100%	A	C	Sulphur acid 80%	A	C
Nitrobenzene 100%	A	A	Sulphur acid 96%	A	C
Oil heating	C	C	Sulphur acid 98%	B	C
Oleic acid 100%	C	A	Sulphur acid fuming	C	C
Orthophosphoric acid 50%	C	B	Sulphurous acid 30%	A	A
Orthophosphoric acid 95%	A	A	Tannic acid - sol.	A	A
Oxalic acid - sol.sat.	B	A	Tartaric acid - sol.sat.	A	A
Perchloric acid 20%	A	B	Toluene 100%	C	C
Perchloric acid 50%	A	C	Trichloroethylene 100%	C	C
Perchloric acid 70%	A	C	Triethanolamine - sol.	-	-
Phenol - sol.	A	A	Turpentine	B	C
Phosphoric acid - up to 25%	A	A	Urea - sol.	A	A
Phosphoric acid - 25% to 50%	A	B	Water	A	A
Phosphorous trichloride 100%	B	B	Wetting agents	A	A
Picric acid - sol.sat.	A	A	Wine	C	C
Potassium bromate - sol.sat.	A	A	Xilene 100%	A	A
Potassium bromide - sol.sat.	A	A	Yeast - sol.	-	-
Potassium carbonate - sol.sat.	A	A	Zinc carbonate - Sol.sat.	A	A
Potassium chlorate - sol.sat.	A	A	Zinc chloride - Sol.sat.	A	A
Potassium chloride - sat.sol.	A	A	Zinc oxide - Sol.sat.	A	A
Potassium chromate - sat.sol.	A	A	Zinc sulphate - Sol.sat.	A	A