

Chemical Resistance of Polyethylenes

Explanation

Symbol	Meaning	Notes
++	Good	The product has no effect
+	Fair	Less suitable grades and unfavourable conditions give rise to difficulties
o	Doubtful	Application of PE as packaging material (bottles) involves hazards which can be disregarded in some special cases only
-		Is not recommended for packaging applications
v	Unsuitable	The product produces inflammable, toxic or unpleasant-smelling vapours
CO ₂		Permeable to carbon dioxide
O ₂		Permeable to oxygen

It is recommended to use a low melt index grade to avoid the formation of internal and external stresses in order to minimize the hazard of environmental stress cracking if a "+" or "o" sign is indicated under 'physical attack'.

It is recommended to use a high density grade if a "+" or "o" sign is indicated under 'permeability'.

It is definitely inadvisable to use polyethylene as packaging material if a "-" sign is indicated!

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability		Remarks
	+20°C	+60°C		+40°C	+60°C	
A						
Acetaldehyde	++	++	o	o	-	v
Acetanilide	++	++	++	++	++	
Acetic acid 5%	++	++	+	++	++	
Acetic acid 50%	++	++	+	+	+	v
Acetic anhydride	++	++	o	o	o	v
Acetone	++	++	o	o	-	v [®]
Acetophenone	++	++	+	o	-	v
Acetylsalicylic acid	++	++	++	++	++	
Acrylonitrile	++	++	+	o	-	v
Adipic acid	++	++	+	+	+	
Alcohol	++	++	o	+	+	
Allyl alcohol	++	++	+	o	o	v
Alum (all types)	++	++	++	++	++	
Aluminium oxide	++	++	++	++	++	
Aluminium salts						See page 24
Amino acids	++	++	++	++	++	
Ammonia	++	++	++	++	++	CO ₂
Ammonium salts						See page 24
Ammonium-nitrate lime	++	++	++	++	++	
Amylacetate	++	++	o	o	-	v
Amylalcohol	++	++	+	+	+	v
Aniline	++	++	o	o	o	v

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability		Remarks
	+20°C	+60°C		+40°C	+60°C	
Aniline dyes dry, -oil-soluble	++	++	+	+	+	
Aniline dyes dry, -water-soluble	++	++	++	+	+	
Aniline salts	++	++	+	+	+	
Aniseed oil	++	++	+	-	-	V
Anisole	++	++	o	o	-	V
Anthraquinone	++	++	+	++	++	®
Antifreeze	++	++	+	++	++	
Antimony	++	++	++	++	++	
Antimony compounds						See page 24
Aqua regia	-	-	o	++	++	not recommended
Arsenic	++	++	++	++	++	
Arsenic trioxide	++	++	++	++	++	
Aspirin	++	++	++	++	++	
Atropine and its salts	++	++	++	++	++	
B						
Barium hydroxide	++	++	+	++	++	CO2
Barium salts						See page 24
Barium sulphide	++	++	++	+	++	
Battery acid	++	++	++	++	++	
Beer	++	++	++	+	+	CO2 (pressure)
Benzaldehyde	++	++	o	o	-	V
Benzene (benzole)	++	++	+	-	-	V

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability		Remarks
	+20°C	+60°C		+40°C	+60°C	
Benzene hexachloride	++	++	+	+	+	V
Benzene sulphonic acid	++	++	o	++	++	
Benzoic acid	++	++	+	++	++	
Benzyl acetate	++	++	+	-	-	V
Benzyl Alcohol	++	++	o	+	+	V
Bicarburetted soda	++	++	++	++	++	
Bichromate sulphuric acid	o	-	+	++	++	®
Bicycle oil	++	++	+	o	o	
Bismuth compounds						See page 24
Bismuth trichloride	++	++	o	+	+	
Bitumen	++	++	+	o	o	V
Blankite	++	++	++	++	++	O ₂ , CO ₂
Bleaching liquor	+	-	++	++	++	
Bleaching lye	+	-	++	++	++	
Bleaching powder	++	+	++	++	++	
Blue ashes	++	++	++	++	++	
Borax	++	++	++	++	++	
Boric acid	++	++	++	++	++	
Boric acid solution	++	++	++	++	++	
Braking fluids	++	++	o	+	+	
Brass polish	++	++	+	++	++	
Brillantine	++	++	+	+	o	
Brine	++	++	++	++	++	

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability		Remarks
	+20°C	+60°C		+40°C	+60°C	
Bromine	-	-	-	-	-	
Bromobenzene(-benzole)	++	++	+	-	-	
Bromophorm	++	++	+	-	-	
Butane diol	++	++	+	++	++	
Butanol	++	++	+	+	+	V
Butter	++	++	+	+	o	CO ₂
Butyl acetate	++	++	o	-	-	V
Butyl alcohol	++	++	+	+	+	V
Butyl chloride	++	++	+	-	-	
Butyl phenol	++	++	o	+	o	
Butyraldehyde	++	++	o	o	o	
Butyric acid	++	++	o	+	+	V

C

Cadmium salts See page 24

Cadmium sulphide ++ ++ ++ ++ ++

Caffeine and its salts ++ ++ ++ ++ ++

Calcium hydroxide ++ ++ ++ ++ ++ CO₂

Calcium hypochlorite ++ + ++ ++ ++

Calcium salts See page 24

Californian mixture ++ ++ ++ ++ ++ CO₂

Calomel ++ ++ ++ ++ ++

Camphor ++ ++ o o o V

Camphor oil ++ ++ + o o V

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability		Remarks
	+20°C	+60°C		+40°C	+60°C	
Caprolactam	++	++	+	++	++	
Carbazole	++	++	++	+	o	V
Carbolineum	++	++	o	o	-	V
Carbon black	++	++	++	++	++	
Carbon disulphide	++	++	+	-	-	
Carbon tetrachloride	++	++	+	-	-	
Carnauba wax	++	++	+	+	+	®
Castor oil	++	++	o	+	o	
Cattle feed	++	++	++	++	++	
Caustic potash	++	++	+	++	++	CO ₂
Caustic soda	++	++	+	++	++	CO ₂
Cellosolve	++	++	+	+	o	
Cellulose varnish	++	++	o	-	-	
Cetyl alcohol	++	++	+	+	+	
Chloral (+chloral hydrate)	++	++	o	o	o	V
Chloro-acetic acids	++	++	o	++	++	V
Chloroamine	++	++	++	++	++	
Chlorobenzene (-benzole)	++	++	+	-	-	
Chloroform	++	++	+	-	-	
Chloronitrobenzene - liquid	++	++	o	o		V
Chloronitrobenzene - solid	++	++	+	+		V
Chlorophenol (mono, etc.)	++	++	+	o	-	V
Chloropropionic acid	++	++	o	++		

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability		Remarks
	+20°C	+60°C		+40°C	+60°C	
Chlorosulphonic acid					not recommended	
Chromate yellow	++	++	++	++	++	
Chromatic acid	+	-	+	++	++	
Chromium salts					See page 24	
Cinnamon	++	++	++	+	+	V
Cinnamon oil	++	++	+	-	-	
Citric acid	++	++	++	++	++	®
Citronel oil	++	++	+	-	-	
Clove oil	++	++	+	o	o	V
Cloves	++	++	+	+	+	V
Cobalt salts					See page 24	
Coconut fat	++	++	+	++	++	
Coconut oil	++	++	+	+	+	
Codliver oil	++	++	+	+	+	CO ₂
Coffee	++	++	++	o	o	V
Colophonium(resin)	++	++	++	++	++	
Copper green	++	++	++	++	++	
Copper oxide	++	++	++	++	++	
Copper oxychloride	++	++	++	++	++	
Copper salts					See page 24	
Cotton-seed oil	++	++	+	+	o	
Cream (face , hands)	++	++	+	+	+	
Creolin	++	++	o	o	-	V

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability		Remarks
	+20°C	+60°C		+40°C	+60°C	
Creosote	++	++	o	o	-	V
Cresol (ortho,meta,para)	++	++	o	o	o	V
Crude oils (minerals)	++	++	o	o	o	V
Cyanamide	++	++	++	++	++	
Cyclohexane	++	++	o	o	-	V
Cyclohexanol	++	++	o	+	+	V
Cyclohexanone	++	++	o	o	o	V
D						
DDT (powder)	++	++	+	++	++	
Decalin	++	++	+	-	-	
Detergents (liquid)	++	++	o	++	++	
Detergents (powder)	++	++	+	++	++	
Developer (phot.)	++	++	++	++	++	
Dextrin	++	++	++	++	++	
Dibutyl phthalate	++	++	o	+	++	
Dichlorobenzene (-benzole)	++	+	+	-	-	
Dichloroethylene	++	++	+	-	-	
Dichloromethane	++	++	+	-	-	
Diesel oil	++	++	+	o	o	V
Diethanol amine	++	++	+	++	++	CO2
Diethyl ether	++	++	++	-	-	
Diethyl Ketone	++	++	o	o	-	
Diethylene glycoether	++	++	o	+	+	V

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability		Remarks
	+20°C	+60°C		+40°C	+60°C	
Dimethyl formamide	++	++	+	+	+	
Diocyl phthalate	++	++	+	+	+	
Dioxane	++	++	o	o	o	V
Diphenyl amine	++	++	+	+	+	V
Diphenyl ether	++	++	+	o	-	V
Diphenyl oxide	++	++	+	o	-	V
Dolomite	++	++	++	++	++	®
E						
Eau de cologne	++	++	+	o	o	V
Eau de Javelle	+	-	++	++	++	
Emulsion paint	++	++	++	++	++	
Engine oil	++	++	+	o	o	
Epsom salt	++	++	++	++	++	
Ether	++	++	o	-	-	V
Etheric oil	++	++	+	-	-	
Ethyl acetate	++	++	o	o	-	V
Ethyl alcohol	++	++	+	+	+	
Ethyl aniline	++	++	+	o	o	V
Ethyl benzene (-benzole)	++	++	+	-	-	
Ethyl benzoate	++	++	o	o	o	V
Ethyl chloride	++	++	+	-	-	
Ethylen chloride (mono,di)	++	++	+	-	-	
Ethylene chlorohydrine	++	++	+	-	-	

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability		Remarks
	+20°C	+60°C		+40°C	+60°C	
Ethylene diamine	++	++	+	+	+	V, CO ₂
Ethylene glycol	++	++	+	++	++	
Ethylene salicylate	++	++	+	o	o	V

F

Ferric salts	See page 24
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Ferrous salts	See page 24
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Fertilizer	++	++	++	++	++	®
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Fir-needle oil	++	++	+	-	-	V
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Fixative (phot)	++	++	++	++	++	
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Floor wax	++	++	o	o	o	
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Formaldehyde 40%	++	++	+	+	+	V
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Formaline	++	++	+	+	+	V
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Formamide	++	++	+	+	+	
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Formic acid	++	++	+	++	++	V
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Freon	++	++	+	-	-	
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Frigen	++	++	+	-	-	
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Fruit juice	++	++	++	++	++	
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Fuel oil	++	++	+	o	o	
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Fuel oil (domestic use)	++	++	+	o	o	V
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fungicides	++	++	++	++	++	
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Furfural	++	++	+	o	o	V
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Furfuryl alcohol	++	++	o	-	-	
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G

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability +40°C +60°C	Remarks	
	+20°C	+60°C				
Gallic acid (tannic acid)	++	++	+	++	++	
Galvanizing liquor	++	++	++	++	++	
gas liquor	++	++	+	+	+	
gasoline	++	++	+	o	-	V, HD grades only
Glacial-acetic acid	++	++	o	o	o	V
Glauber salt	++	++	++	++	++	
Glucose	++	++	++	++	++	®
Glue (fish,bone)	++	++	++	++	++	
Glycerine (glycerol)	++	++	++	++	++	
Glycol	++	++	+	++	++	
Gypsum	++	++	++	++	++	
H						
Heptane	++	++	+	-	-	
Hexachlorocyclohexane	++	++	+	+	+ v	
Hexane	++	++	+	-	-	
Hexanol	++	++	+	+	+	V
Hexylalcohol	++	++	+	+	+	V
Honey	++	++	++	++	++	
Hydrobromic acid	++	++	++	++	++	
Hydrochloric acid	++	++	++	++	+	
Hydrochloric acid (chem.pure)	++	++	++	++	++	
Hydrocyanic acid	++	++	+	o	o	V, CO2
Hydrofluoric acid	++	++	+	+	+	V,CO2

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability		Remarks
	+20°C	+60°C		+40°C	+60°C	
Hydrogen peroxide (sol.)	+	+	++	++	o	
Hydroquinone	++	++	++	++	++	
Hypo	++	++	++	++	++	

I

I cont.

Ink (printing ink)	++	++	+	+	o	
Ink (writing ink)	++	++	++	++	++	®
Insecticides (oilsolution)	++	++	o	-	-	
Insecticides (powder)	++	++	+	+	+	
Insecticides(aqueous dispersion)	++	++	+	++	++	
Iodine	++	++	+	o	o	
Iodine tincture	++	++	+	+	o	
Iron salts						See page 24
Isobutanol	++	++	+	+	+	V
Isobutyl alcohol	++	++	+	+	+	V
Iso-Octane	++	++	+	o	-	V, see gasoline
Isopropyl acetate	++	++	+	o	o	V
Isopropyl ether	++	++	+	-	-	

J

Jam ++ ++ ++ ++ ++

K

Kerosene	++	++	+	o	-	V,see gasoline
Ketchup	++	++	++	++	++	

L

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability	Remarks
	+20°C	+60°C			
Lactic acid	++	++	+	++	++
Lanolin	++	++	+	+	+
Lard	++	++	+	+	o
Latex	++	++	+	++	++
Lauryl alcohol	++	++	+	+	+
Lauryl sulphate	++	++	o	+	+
Lead acetate	++	++	++	++	++ 
Lead oxide	++	++	++	++	++
Lead salts					See page 24
Lemon oil	++	++	+	-	-
Lime milk	++	++	+	++	++
Lime salts					See page 24
Lime, slaked	++	++	++	++	++
Lime, unslaked	++	++	++	++	++
Lindane powder	++	++	+	+	+
Linseed oil	++	++	+	+	o
Lithium salts					See page 24
Liver of sulphur					see sodium sulphide
Lotion (hair, shaving)	++	++	+	+	o
Lubricating oil	++	++	+	o	o
M					
Magnesia	++	++	+	++	++
Magnesium oxide	++	++	+	++	++

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability	Remarks	
	+20°C	+60°C		+40°C	+60°C	
Magnesium salts					See page 24	
Maleic acid	++	++	+	++	++	
Manganese salts					See page 24	
Margarine	++	++	+	+	o	
Mayonnaise	++	++	+	++	o	
Menthol	++	++	+	+	o	V
Mercuric salts					See page 24	
Mercurochrome	++	++	++	++	++	
Mercurous salts					See page 24	
Mercury (metal)	++	++	++	++	++	
Mercury oxide	++	++	++	++	++	
Mercury salts					See page 24	
Methanol	++	++	o	+	+	
Methyl acetate	++	++	o	o	o	V
Methyl alcohol	++	++	o	+	+	
Methyl salicylate	++	++	+	o	o	V
Methylene chloride	++	++	+	-	-	
Methylethylene ketone	++	++	o	o	-	
Milk	++	++	++	++	++	
Mineral oil	++	++	+	+	o	
Minerals	++	++	++	++	++	
Mohr's salt	++	++	++	++	++	

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability	Remarks	
	+20°C	+60°C			+40°C	+60°C
Monochlorobenzene(-benzole)	++	++	+	-	-	
Morpholine	++	++	o	+	+	V
Mustard	++	++	++	++	++	
N						
Nail varnish	++	++	o	o	-	
Naphthalene	++	++	+	o	o	V
nickel oxide	++	++	++	++	++	®
Nickel salts						See page 24
Nicotine	++	++	+	+	+	
Nitric acid (<=50%)	+	++	++			
Nitric acid (>50%)	-		o	+	+	
Nitrobenzene (-benzole)	++	++	o	o	o	V, not recommended
Nitrocresole	++	++	+	o	o	
Nitroglycerine	++	++	+	o	o	
Nonyl alcohol	++	++	+	o	o	V
Nutmeg	++	++	++	o	o	V
Nutmeg oil	++	++	+	-	-	
O						
Ochre	++	++	++	++	++	
Octane	++	++	+	o	-	V, see gasoline
Octanol	++	++	+	o	o	
Octyl alcohol	++	++	+	o	o	V
Oleic acid	++	++	+	+	o	

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability		Remarks
	+20°C	+60°C		+40°C	+60°C	
Oleum	o	-	o	+	+	not recommended
Olive oil	++	++	+	+	o	
Oxalic acid (solid or solution)	++	++	++	++	++	
P						
Paint						see terpine, varnish & emulsion paint
Palm oil	++	++	+	+	o	®
Palmitinic acid	++	++	+	++	++	
Paraffin (solid)	++	++	+	++	++	
Paraffin oil	++	++	+	o	-	
Patent potash	++	++	++	++	++	
Peanut butter	++	++	+	+	o	
Pentachlorophenol	++	++	++	o	o	v
Pentane	++	++	+	-	-	
Pepper	++	++	++	++	++	
Peppermint oil	++	++	+	-	-	v
Perchloric-acid solution	+	o	++	++	+	
Perchloroethylene	++	++	+	-	-	
Perfumes	++	++	+	o	-	v, not recommended
Petrol						see gasoline
Petroleum	++	++	+	o	-	v
Petroleum ether	++	++	+	o	-	v
Phenol	++	++	o	+	+	v

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability	Remarks	
	+20°C	+60°C			+40°C	+60°C
Propanol	++	++	+	+	+	
Propargyl alcohol	++	++	+	+	+	
Propionic acid	++	++	o	++	++	V
Propylene glycol	++	++	+	++	++	
Propyl alcohol	++	++	+	+	+	
Prussic acid	++	++	+	o	o	V, very hazardous
Pyridine	+	++	o	o	o	V
Q						
Quinine ad its salts	++	++	++	++	++	
R						
Ratbane	++	++	++	++	++	
Red ochre						See page 24
Resorcine (resorcinol)	++	++	++	++	++	
Ricinus oil	++	++	o	+	o	
S						
Salad oil	++	++	+	+	o	
Salas sauce	++	++	+	++	o	
Salicyl aldehyde	++	++	+	o	o	V
Salicylic acid	++	++	++	++	++	
Salmiac	++	++	++	++	++	
Saltpetre (nitrate)						See page 24
Saponin	++	++	++	++	++	
Scouring powder	++	++	+	++	++	
Sesame oil	++	++	+	+	o	

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability	Remarks
	+20°C	+60°C			
Shampoo	++	++	o	++	++
Silicone oil	++	++	o	+	+
Silver polish	++	++	+	++	++
Silver salts					See page 24
Soap(soft, green & yellow)	++	++	o	++	++
Soda	++	++	++	++	++
Sodium cyanide	++	++	+	+	+
Sodium hydroxide	++	++	+	++	++ CO ₂
Sodium hypochlorite	+	-	+	++	++
Sodium salts					See page 24
Sodium sulphide	++	++	+	+	+
Soldering fluid	++	++	++	++	++
Solvent naphtha	++	++	+	-	-
Soy oil	++	++	+	+	o
Spermaceti	++	++	+	+	+
Spindle oil	++	++	+	o	o
Spirit	++	++	+	+	+
Stannic salts (tin)					See page 24
Stannous salts (tin)					See page 24
Starch	++	++	++	++	++
Stearic acid	++	++	++	++	++
Strontium salts					See page 24
Styrene (styrol)	++	++	+	o	-

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability		Remarks
	+20°C	+60°C		+40°C	+60°C	
Sublimate	++	++	++	++	++	
Succinic acid	++	++	++	++	++	
Sucrose	++	++	++	++	++	
Sugar	++	++	++	++	++	
Sulphate of ammonia						See page 24
Sulphur	++	++	++	++	++	
Sulphur chloride						not recommended
Sulphur trioxide	o	-	o	+	0	V, not recommended
Sulphuric acid (50-90%)	+	+	+	++	++	
Sulphuric acid (90-100 %)	o	o	+	++	++	
Sulphuric acid (dilute)	++	++	++	++	++	
Sulphuryl chloride						not recommended
Superphosphate	++	++	++	++	++	
Syrup	++	++	++	++	++	
T						
Talcum grease	++	++	+	+	o	
Talcum powder	++	++	++	++	++	
Tannic acid	++	++	+	++	++	
Tannin	++	++	+	++	++	
Tar oil	++	++	o	o	o	V
Tartaric acid	++	++	++	++	++	
Tea	++	++	++	++	++	
Tetra						see "carbon tetrachl"

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability	Remarks
	+20°C	+60°C		+40°C +60°C	
Tetra-ethyl lead					
Tetra-ethyl lead					
Tetrahydrochloroethane	++	++	+	-	-
Tetrahydrofuran	++	++	o	-	-
Tetralin	++	++	+	-	-
Thallium salts					See page 24
Thio(sodium thiosulphate)					See page 24
Thioglycolic acid	++	++	+	o o	v
Thionylchloride					not recommended
Thiophene	++	++	o	-	-
Thomas meal	++	++	++	++	++
Tin compounds					See page 24
Titanium tetrachloride					not recommended
Titanium white	++	++	++	++	++
Toluene (toluol)	++	++	+	-	- v
Tomato juice	++	++	++	++	++
Toothpaste	++	++	+	+	+
Transformer oil	++	++	+	o o	
Trichloro-acetic acid	++	++	o	+o	v
Trichlorobenzene (benzole)	++	++	+	-	-
Trichloroethane	++	++	+	-	-
Trichloroethylene	++	++	+	-	-

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability +40°C +60°C	Remarks
	+20°C	+60°C			
Tricresylphosphate	++	++	o	+	+
Triethanolamine (turkey red oil)	++	++	o	++	++
Turkey red oil	++	++	+	+	+
Turpentine	++	++	+	-	-
Turpentine (synthetic)	++	++	+	o	-
Turpentine varnish	++	++	+	o	- O ₂ , not recommended
U					
Urea	++	++	++	++	++
V					
Vanilla extract	++	++	+	o	o V
Varnish					see terpentine varnish
Vaselin	++	++	+	+	o
Vinegar	++	++	++	++	++
Vinylchloride	++	++	+	-	-
W					
Waterglass	++	++	+	++	++
Wax: beeswax	++	++	+	+	+
Wax: carnauba wax	++	++	+	+	+
Wax: mineral-oil wax	++	++	+	+	o
White lead	++	++	++	++	++
White spirit	++	++	+	o	-
X					
Xylene (xylol)	++	++	+	-	-
Y					

Chemicals	Resistance to Chemical attack		Resistance to Physical attack	Permeability	Remarks
	+20°C	+60°C			
Yeast	++	++	++	++	++
Yoghurt	++	++	++	++	++
Z					
Zinc white	++	++	++	++	++
Zinc, salts	See page 24				

Metal salts

In the following table the resistance of polyethylene is evaluated to the action of various chemicals. Salts (and their solutions) whose chemical names can be composed out of the diagram are not included in the tables. These metal salts, nor solid nor in an aqueous solution, have no influence on polyethylene.

Metals		Salts	
Aluminium	Nickel	acetate	hydrosulphate
Ammonium	Potassium	arsenate	iodate, iodite
Antimoon	Silver	benzoate	metaphosphate
Barium	Sodium	borate	molybdate
Bismuth	Strontium	bromate	nitrate
Cadmium	Thallium	bromide	nitrite
Calcium	Tin	carbonate	oxalate
Chromium	Zinc	chlorate	perborate
Cobalt		chloride	persulphate
Copper		chromate	phosphate, phosphite
Iron		dicarbonate	rhodanide
Lead		dichromate	salicylate
Lithium		disulphate	silicate
Magnesium		ferric/ferrous cyanide	silicofluoride
Manganese		fluoride	sulphate, sulphite
Mercury		formiate	thiosulphate
Molybdenum		gluconate	