



Chemical Resistance Table KPC LDPE

Based on the Technical Report, this document suggests the chemical resistance of low density polyethylene (LDPE). The information and data contained in this document should be used only as a general guideline on the possible use of the chemicals in contact with the specified polymers under normal conditions as detailed in the table. The data presented are not intended as guidance for any specific application, purpose or use.

Normal conditions include the following:

- a) Temperatures of 68°F and 140°F;
- b) The absence of internal and external mechanical stress; and
- c) Good manufacturing principles and procedures.

Symbols used for the chemical resistance of the materials

S = Satisfactory

L = Limited

NS = Not Satisfactory

Symbols used to describe the chemicals

The chemicals are listed by their most customary names, including common and trade names, in alphabetical order.

The concentration and/or the purity of each chemical is indicated in the table using the following symbols:

Sat. sol. = Saturated aqueous solution, prepared at 68°F.

Sol. = Aqueous solution at a concentration higher than 10%, but not saturated.

Dil. sol. = Dilute aqueous solution at a concentration equal to or less than 10 %.

Work. Sol. = Working solution of the concentration usually used in the industry concerned.

Susp. = Suspension of solid in a saturated solution at 68°F.

tg = At least technical grade purity.

tg-s = Technical grade, solid.

tg-l = Technical grade, liquid.

tg-g = Technical grade, gas.

The concentrations are expressed as a percentage by mass at 68°F, unless otherwise stated



KING PLASTIC CORPORATION

Chemical Resistance Table LDPE

Symbols used for the chemical resistance of the materials

S = Satisfactory

L = Limited

NS = Not Satisfactory

The concentration and/or the purity of each chemical is indicated in the table using the following symbols:

Sat. sol. = Saturated aqueous solution, prepared at 68° F.

Sol. = Aqueous solution at a concentration higher than 10%, but not saturated.

Dil. sol. = Dilute aqueous solution at a concentration equal to or less than 10%.

Work. Sol. = Working solution of the concentration usually used in the industry concerned.

Susp. = Suspension of solid in a saturated solution at 68° F.

tg = At least technical grade purity.

tg-s = Technical grade, solid.

tg-l = Technical grade, liquid.

tg-g = Technical grade, gas.

The concentrations are expressed as a percentage by mass at 68° F, unless otherwise stated.

Chemical Resistance of LDPE

Not Subjected to Mechanical Stress, to Various Fluids at 68°, 140°

Chemical or Product	Concentration	Temperature °F		CR	
		CR	CR		
Acetaldehyde	40	68°	S	140°	L
	tg-l	68°	S	140°	L
Acetic_Acid	Up_to_10	68°	S	140°	S
	10_to_40	68°	S	140°	
	50	68°	S	140°	
	40_to_60	68°	S	140°	
					140°
				140°	
	80	68°	S		
Acetic_acid,_glacial	>_96	68°	S	140°	L
Acetic_anhydrique	tg-l	68°	S	140°	L
Acetone	tg-l	68°	L	140°	L
Acetophenone	tg-s	68°		140°	
Acrylonitrile	tg-l	68°			
Adipic_acid	Sat._sol._(1.4%)	68°	S	140°	S
Air	tg-g	68°	S	140°	S
Allyl_alcohol	tg-l	68°	S	140°	S
Aluminum_chloride	Sat._sol.	68°	S	140°	S
Aluminum_fluoride	Susp.	68°	S	140°	S
Aluminum_hydroxide	Susp.	68°	S	140°	S
Aluminum_nitrate	Sat._sol.	68°	S	140°	S
Aluminum_oxychloride	Susp.	68°	S	140°	S
Aluminum_Potassium sulphate	Sat._sol.	68°	S	140°	S
Aluminum_sulphate	Sat._sol.	68°	S	104°	S
Ammonia,_aqueous	Sat._sol.	68°	S	140°	S
Ammonia,_dry_gas	tg-g	68°	S	140°	S
Ammonia,_liquid	tg-g	68°	S	140°	S
Ammonium_acetate	Sat._Sol.	68°		140°	
Ammonium_carbonate	Sat._Sol.	68°	S	140°	S



KING PLASTIC CORPORATION

Chemical Resistance Table LDPE

Symbols used for the chemical resistance of the materials

S = Satisfactory

L = Limited

NS = Not Satisfactory

The concentration and/or the purity of each chemical is indicated in the table using the following symbols:

Sat. sol. = Saturated aqueous solution, prepared at 68° F.

Sol. = Aqueous solution at a concentration higher than 10%, but not saturated.

Dil. sol. = Dilute aqueous solution at a concentration equal to or less than 10%.

Work. Sol. = Working solution of the concentration usually used in the industry concerned.

Susp. = Suspension of solid in a saturated solution at 68° F.

tg = At least technical grade purity.

tg-s = Technical grade, solid.

tg-l = Technical grade, liquid.

tg-g = Technical grade, gas.

The concentrations are expressed as a percentage by mass at 68° F, unless otherwise stated.

Chemical or Product	Concentration%	Temperature °F			
		CR		CR	
Ammonium_chloride	Sat._Sol.	68°	S	140°	S
Ammonium_fluoride	Up_to_20	68°	S	140°	S
Ammonium_hydrogen_carbonate	Sat._Sol.	68°	S	140°	S
Ammonium_metaphosphate	Sat._Sol.	68°	S	140°	S
Ammonium_nitrate	Sat._Sol.	68°	S	140°	S
Ammonium_persulphate	Sat._Sol.	68°	S	140°	S
Ammonium_phosphate	Sat._Sol.	68°		140°	
Ammonium_sulphate	Sat._Sol.	68°	S	140°	S
Ammonium_sulphide	Sat._Sol.	68°	S	140°	S
Ammonium_thiocyanate	Sat._Sol.	68°	S	140°	S
Amyl_acetate	tg-l	68°	S	140°	L
Amyl_alcohol	tg-l	68°	S	140°	L
Amyl_chloride	tg-l	68°		140°	
Aniline	Sat._Sol.	68°		140°	
	tg-l	68°	S	140°	L
Antimony_(III)_chloride	Sat._Sol.	68°	S	140°	S
Apple_juice	Work._Sol.	68°	S		
Aqua_regia	HCl/HNO3_(3/1)	68°	NS	140°	NS
Arsenic_acid	Sat._Sol.	68°	S	140°	S
Barium_bromide	Sat._Sol.	68°	S	140°	S
Barium_carbonate	Susp.	68°	S	140°	S
Barium_chloride	Sat._Sol.	68°	S	140°	S
Barium_hydroxide	Sat._Sol.	68°	S	140°	S
Barium_sulphate	Susp.	68°	S	140°	S
Barium_sulphide	Sat._Sol.	68°	S	140°	S
Beer	Work._Sol.	68°	S	140°	S
Benzaldehyde	tg-l	68°	S	140°	L
Benzene	tg-l	68°	L	140°	L
Benzoic_acid	Sat._Sol.	68°	S	140°	S
Benzoyl_chloride	tg-l	68°		140°	
Benzyl_alcohol	tg-l	68°		140°	
Bismuth_carbonate	Sat._Sol.	68°	S	140°	S
Borax	Sol.	68°	S	140°	S
	Sat._Sol.	68°	S	140°	S
Boric_acid	Dil._Sol.	68°	S	140°	S
	Sat._Sol.	68°	S	140°	S

Chemical Resistance Table LDPE

Symbols used for the chemical resistance of the materials

S = Satisfactory

L = Limited

NS = Not Satisfactory

The concentration and/or the purity of each chemical is indicated in the table using the following symbols:

Sat. sol. = Saturated aqueous solution, prepared at 68° F.

Sol. = Aqueous solution at a concentration higher than 10%, but not saturated.

Dil. sol. = Dilute aqueous solution at a concentration equal to or less than 10%.

Work. Sol. = Working solution of the concentration usually used in the industry concerned.

Susp. = Suspension of solid in a saturated solution at 68° F.

tg = At least technical grade purity.

tg-s = Technical grade, solid.

tg-l = Technical grade, liquid.

tg-g = Technical grade, gas.

The concentrations are expressed as a percentage by mass at 68° F, unless otherwise stated.

Chemical or Product	Concentration%	Temperature °F			
		68°		140°	
		CR	CR	CR	CR
Boron_trifluoride	Sat._Sol.	S	S	S	S
Bromine,_gas	tg-g	NS	NS	NS	NS
Bromine,_liquid	tg-l	NS	NS	NS	NS
Butane,_gas	tg-g	S	S	S	S
n-Butanol	tg-l	S	S	S	S
Butyl_acetate	tg-l				
Butyl_glycol	tg-l				
Butylphenols	Sat._Sol.				
Butyl_phtalate	tg-l				
Butyric_acid	tg-l	S	S	L	L
Calcium_carbonate	Susp.	S	S	S	S
Calcium_chlorate	Sat._Sol.	S	S	S	S
Calcium_chloride	Sat._Sol.	S	S	S	S
Calcium_hydroxide	Sat._Sol.	S	S	S	S
Calcium_hypochlorite_Sol.		S	S	S	S
Calcium_nitrate	Sat._Sol.	S	S	S	S
Calcium_sulphate	Susp.	S	S	S	S
Calcium_sulphide	Dil._Sol.	S	S	S	S
Calcium_hydrogen_sulphide	Sol.	S	S	S	S
Camphor_oil	tg-l				
Carbon_dioxide,_tg-g		S	S	S	S
dry_gas					
Carbon_dioxide,_tg-g		S	S	S	S
wet_gas					
Carbon_disulphide	tg-l	L	L	NS	NS
Carbon_monoxide,_tg-g		S	S	S	S
gas					
Carbon_tetrachloride	tg-l	L	L	NS	NS
Castor_oil	tg-l				
Chlorine,_dry_gas	tg-g	L	L	NS	NS
Chlorine_water	Sat._Sol.	L	L	NS	NS
Chloroacetic_acid	Sol.	S	S	S	S
Chlorobenzene	tg-l				
Chloroethanol	tg-l				
Chloroform	tg-l	NS	NS	NS	NS
Chloromethane,_gas	tg-g	L	L		

Chemical Resistance Table LDPE

Symbols used for the chemical resistance of the materials

S = Satisfactory

L = Limited

NS = Not Satisfactory

The concentration and/or the purity of each chemical is indicated in the table using the following symbols:

Sat. sol. = Saturated aqueous solution, prepared at 68° F.

Sol. = Aqueous solution at a concentration higher than 10%, but not saturated.

Dil. sol. = Dilute aqueous solution at a concentration equal to or less than 10%.

Work. Sol. = Working solution of the concentration usually used in the industry concerned.

Susp. = Suspension of solid in a saturated solution at 68° F.

tg = At least technical grade purity.

tg-s = Technical grade, solid.

tg-l = Technical grade, liquid.

tg-g = Technical grade, gas.

The concentrations are expressed as a percentage by mass at 68° F, unless otherwise stated.

Chemical or Product	Concentration%	Temperature °F			
		68°		140°	
		CR	CR	CR	CR
Chlorosulphonic_acid	tg-s	NS	NS	NS	NS
Chrome_alum	Sol.	S	S	S	S
(chromium_Potassium_sulphate)				140°	S
Chromic_acid	Sat._Sol.			140°	
	20	S	S	140°	L
	40			140°	
	50	S	S	140°	L
Citric_acid	Sat._Sol.	S	S	140°	S
Coconut_oil	Work._Sol.			140°	
Copper_(II)_chloride	Sat._Sol.	S	S	140°	S
Copper_(II)_cyanide	Sat._Sol.	S	S	140°	S
Copper_(II)_fluoride	Sat._Sol.			140°	
	2	S	S	140°	S
Copper_(II)_nitrate	Sat._Sol.	S	S	140°	S
Copper_(II)_sulphate	Sat._Sol.	S	S	140°	S
Corn_oil	Work._Sol.			140°	
Cottonseed_oil	Work._Sol.			140°	
Cresols	tg-l			140°	
Cresylic_acid	Sat._Sol.	L	L	140°	
Crotonaldehyde	Sat._Sol.			140°	
Cyclohexane	tg-l			140°	
Cyclohexanol	Sat._Sol.			140°	
	tg-s	S	S	140°	S
Cyclohexanone	tg-l	S	S	140°	L
Decalin	tg-l	S	S	140°	L
Developers_(photographic)	Work._Sol.	S	S	140°	S
Dextrin	Sol.	S	S	140°	S
Dextrose	Sol.	S	S	140°	S
Dichloroacetic_acide	tg-l			140°	
Dichloroethylenes	tg-l			140°	
Diethylene_glycol	tg-l			140°	
Diisooctyl_phtalate	tg-l			140°	
Dimethylamine,_gas	tg-g			140°	
Dimethylformamide	tg-l			140°	
Diocetyl_phtalate	tg-l	S	S	140°	L
Dioxane	tg-l	S	S	140°	S



Chemical Resistance Table LDPE

Symbols used for the chemical resistance of the materials

- S = Satisfactory
- L = Limited
- NS = Not Satisfactory

The concentration and/or the purity of each chemical is indicated in the table using the following symbols:

- Sat. sol. = Saturated aqueous solution, prepared at 68° F.
 - Sol. = Aqueous solution at a concentration higher than 10%, but not saturated.
 - Dil. sol. = Dilute aqueous solution at a concentration equal to or less than 10%.
 - Work. Sol. = Working solution of the concentration usually used in the industry concerned.
 - Susp. = Suspension of solid in a saturated solution at 68° F.
 - tg = At least technical grade purity.
 - tg-s = Technical grade, solid.
 - tg-l = Technical grade, liquid.
 - tg-g = Technical grade, gas.
- The concentrations are expressed as a percentage by mass at 68° F, unless otherwise stated.

Chemical or Product	Concentration%	Temperature °F		CR	CR
Ethanol	40	68°	S	140°	L
	95	68°	L	140°	L
	tg-l	68°		140°	
Ethanolamine	tg-l	68°			
Ethyl_acetate	tg-l	68°	L	140°	NS
Ethyl_chloride,_gas	tg-g	68°		140°	
1,1_Ethylene_dichloride	tg-l	68°		140°	
Ethylene_glycol	tg-l	68°	S	140°	S
Ethyl_ether	tg-l	68°	L	140°	
Ferric_chloride	Sat._Sol.	68°	S	140°	S
Ferric_nitrate	Sat._Sol.	68°	S	140°	S
Ferric_sulphate	Sat._Sol.	68°	S	140°	S
Ferrous_chloride	Sat._Sol.	68°	S	140°	S
Ferrous_sulphate	Sat._Sol.	68°	S	140°	S
Fluorine_gas,_dry	tg-g	68°	NS	140°	NS
Fluorine_gas,_wet	tg-g	68°	NS	140°	NS
Fluosilicic_acid	40	68°	S	140°	S
Formaldehyde	30_to_40	68°	S	140°	S
Formic_acid	10	68°	S	140°	S
	40	68°	S	140°	S
	50	68°	S	140°	S
Formic_acid	85_to_tg-l	68°	S	140°	S
Freon_-_F12	Work._Sol.	68°		140°	
Fructose_Sol.		68°		140°	
Fruit_juice	Work._Sol.	68°		140°	
Furfuryl_alcohol	tg-l	68°	S	140°	L
Gas,_manufactured	tg-g	68°	S	140°	
Gas,_Natural,_dry	tg-g	68°	S	140°	S
Gas,_natural,_wet	tg-g	68°	S	140°	
Gasoline_(fuel)	Work._Sol.	68°	S	140°	L
Gelatine_Sol.		68°	S	140°	S
Glucose_Sol.		68°	S	140°	S
Glycerine	tg-l	68°	S	140°	S
Glycolic_acid	Sol.	68°	S	140°	S



KING PLASTIC CORPORATION

Chemical Resistance Table LDPE

Symbols used for the chemical resistance of the materials

S = Satisfactory

L = Limited

NS = Not Satisfactory

The concentration and/or the purity of each chemical is indicated in the table using the following symbols:

Sat. sol. = Saturated aqueous solution, prepared at 68° F.

Sol. = Aqueous solution at a concentration higher than 10%, but not saturated.

Dil. sol. = Dilute aqueous solution at a concentration equal to or less than 10%.

Work. Sol. = Working solution of the concentration usually used in the industry concerned.

Susp. = Suspension of solid in a saturated solution at 68° F.

tg = At least technical grade purity.

tg-s = Technical grade, solid.

tg-l = Technical grade, liquid.

tg-g = Technical grade, gas.

The concentrations are expressed as a percentage by mass at 68° F, unless otherwise stated.

Chemical or Product	Concentration%	Temperature °F		CR	
		CR	CR		
Glycolic_acid	Sol.	68°	S	140°	S
	30	68°		140°	
Grapefruit_juice	Work._Sol.	68°	S		
Heptane	tg-l	68°	S	140°	NS
Hexane	tg-l	68°		140°	
Honey Work._Sol. 20S60 S					
Horseradish	Work._Sol.	68°	S	140°	S
Hydrobromic_acid	Up_to_20	68°	S	140°	S
	Up_to_48	68°	S	140°	S
	50	68°	S	140°	S
Hydrochloric_acid	tg-g	68°	S	140°	S
	Up_to_10	68°	S	140°	S
	20	68°	S	140°	S
	10_to_20	68°	S	140°	S
	Up_to_25	68°	S	140°	S
	30	68°	S	140°	S
	>_30	68°	S	140°	S
	36	68°	S	140°	S
Hydrochloric_acid,_wet_gas	Conc.	68°	S	140°	S
	tg-g	68°		140°	
Hydrocyanic_acid	10	68°	S	140°	S
Hydrofluoric_acid	Up_to_10	68°	S	140°	S
	40	68°		140°	
		68°	S	140°	L
Hydrogen	tg-g	68°	S	140°	S
Hydrogen_peroxide	Up_to_10	68°	S	140°	S
	30	68°	S	140°	S
Hydrogen_peroxide	90	68°	S	140°	NS
Hydrogen_sulphide,_dry_gas	tg-g	68°	S	140°	S
Hydroquinone	Sat._Sol.	68°	S	140°	S
Iodine_(in_potassium_iodide)	Sat._Sol.	68°	NS	140°	NS
Iodine,_in_alcohol	Work._Sol.	68°	NS	140°	NS
Isooctane	tg-l	68°	S	140°	S
Isopropyl_alcohol	tg-l	68°		140°	
Isopropyl_ether	tg-l	68°	S	140°	S



Chemical Resistance Table LDPE

Symbols used for the chemical resistance of the materials

- S = Satisfactory
- L = Limited
- NS = Not Satisfactory

The concentration and/or the purity of each chemical is indicated in the table using the following symbols:

- Sat. sol. = Saturated aqueous solution, prepared at 68° F.
- Sol. = Aqueous solution at a concentration higher than 10%, but not saturated.
- Dil. sol. = Dilute aqueous solution at a concentration equal to or less than 10%.
- Work. Sol. = Working solution of the concentration usually used in the industry concerned.
- Susp. = Suspension of solid in a saturated solution at 68° F.
- tg = At least technical grade purity.
- tg-s = Technical grade, solid.
- tg-l = Technical grade, liquid.
- tg-g = Technical grade, gas.

The concentrations are expressed as a percentage by mass at 68° F, unless otherwise stated.

Chemical or Product	Concentration%	Temperature °F		CR	CR
Lactic_acid	10	68°	S	212°	S
Magnesium_sulphate	Sat._Sol.	68°	S	140°	S
Maleic_acid	Sat._Sol.	68°	S	140°	S
Mayonnaise	Work._Sol.	68°			
Mercuric_chloride	Sat._Sol.	68°	S	140°	S
Mercurous_nitrate	Sol.	68°	S	140°	S
Mercurous_nitrate	Sol.	68°	S	140°	S
	Sat._Sol.	68°	S	140°	S
Mercury	tg-l	68°	S	140°	S
Methyl_acetate	tg-l	68°		140°	
Methyl_alcohol	5	68°		140°	
	65	68°	S	140°	S
Methylamine	Up_to_32	68°			
Methyl_ethyl_ketone	tg-l	68°		140°	
Methylene_chloride	tg-l	68°		140°	
Milk	Work._Sol.	68°	S	140°	S
Mineral_oils	Work._Sol.	68°	S	140°	L
Molasses	Work._Sol.	68°	S	140°	S
Mustard,_aqueous	Work._Sol.	68°	S		
Naphtha	Work._Sol.	68°		140°	
Nickel_chloride	Sat._Sol.	68°	S	140°	S
Nickel_nitrate	Sat._Sol.	68°	S	140°	S
Nickel_sulphate	Sat._Sol.	68°	S	140°	S
Nicotinic_acid	Susp.	68°	S	140°	
Nitric_acid	5	68°	S	140°	S
	10	68°	S	140°	S
	20	68°	S	140°	S
Nitric_acid	25	68°	S	140°	S
	30	68°		140°	
	35	68°		140°	
	40	68°	S	140°	
	Up_to_45	68°		140°	
	50	68°	L	140°	NS
	>_50	68°	NS		
Nitric_acid,_fuming		68°	NS	140°	NS



Chemical Resistance Table LDPE

Symbols used for the chemical resistance of the materials

- S = Satisfactory
- L = Limited
- NS = Not Satisfactory

The concentration and/or the purity of each chemical is indicated in the table using the following symbols:

- Sat. sol. = Saturated aqueous solution, prepared at 68° F.
- Sol. = Aqueous solution at a concentration higher than 10%, but not saturated.
- Dil. sol. = Dilute aqueous solution at a concentration equal to or less than 10%.
- Work. Sol. = Working solution of the concentration usually used in the industry concerned.
- Susp. = Suspension of solid in a saturated solution at 68° F.
- tg = At least technical grade purity.
- tg-s = Technical grade, solid.
- tg-l = Technical grade, liquid.
- tg-g = Technical grade, gas.

The concentrations are expressed as a percentage by mass at 68° F, unless otherwise stated.

Chemical or Product	Concentration%	Temperature °F		CR	CR
Nitrobenzene	tg-l	68°	140°		
Oils_and_fats	tg-l	68°	S	140°	L
Oleic_acid	tg-l	68°	S	140°	S
Oleum		68°	NS	140°	NS
Olive_oil	Work._Sol.	68°		140°	
Oxalic_acid	Sat._Sol.	68°	S	140°	S
Oxygen,_gas	tg-g	68°	S	140°	L
Ozone,_gas	tg-g	68°	L	140°	NS
Paraffin_oil_(F65)	tg-l	68°		140°	
Peanut_oil	Work._Sol.	68°		140°	
Peppermint_oil	Work._Sol.	68°			
Perchloric_acid_(2N)	20	68°			
Petroleum_ether_(ligroin)	Work._Sol.	68°		140°	
Phenol	Sol.	68°	S	140°	S
	5	68°		140°	
	90	68°	S	140°	S
Phosphine	tg-g	68°	S	140°	S
Phosphoric_acid	Up_to_50	68°	S	140°	S
Phosphoric_acid	50_to_75	68°	S	140°	S
25_to_85	2060				
Phosphorus_(III)_chloride	tg-l	68°	S	140°	L
Phosphorus_oxychloride	tg-l	68°		140°	
Picric_acid	Sat._Sol.	68°	S	140°	
Potassium_bicarbonate	Sat._Sol.	68°	S	140°	S
Potassium_bisulphate	Sat._Sol.	68°	S	140°	S
Potassium_borate	Sat._Sol.	68°	S	140°	S
Potassium_bromate	Sat._Sol.	68°	S	140°	S
	Up_to_10	68°	S	140°	S
Potassium_bromide	Sat._Sol.	68°	S	140°	S
Potassium_carbonate	Sat._Sol.	68°	S	140°	S
Potassium_chlorate	Sat._Sol.	68°	S	140°	S
Potassium_chloride	Sat._Sol.	68°	S	140°	S
Potassium_chromate	Sat._Sol.	68°	S	140°	S
	40	68°	S	140°	S
Potassium_cyanide	Sol.	68°	S	140°	S
	Sat._Sol.	68°	S	140°	S

Chemical Resistance Table LDPE

Symbols used for the chemical resistance of the materials

S = Satisfactory

L = Limited

NS = Not Satisfactory

The concentration and/or the purity of each chemical is indicated in the table using the following symbols:

Sat. sol. = Saturated aqueous solution, prepared at 68° F.

Sol. = Aqueous solution at a concentration higher than 10%, but not saturated.

Dil. sol. = Dilute aqueous solution at a concentration equal to or less than 10%.

Work. Sol. = Working solution of the concentration usually used in the industry concerned.

Susp. = Suspension of solid in a saturated solution at 68° F.

tg = At least technical grade purity.

tg-s = Technical grade, solid.

tg-l = Technical grade, liquid.

tg-g = Technical grade, gas.

The concentrations are expressed as a percentage by mass at 68° F, unless otherwise stated.

Chemical or Product	Concentration%	Temperature °F			
		68°	CR	140°	CR
Potassium_dichromate	Sat._Sol.	68°	S	140°	S
	40	68°	S	140°	S
Potassium_ferricyanide	Sat._Sol.	68°	S	140°	S
Potassium_fluoride	Sat._Sol.	68°	S	140°	S
Potassium_(II)_ferrocyanide	Sat._Sol.	68°	S	140°	S
Potassium_hydrogen sulphite	Sol.	68°	S	140°	S
Potassium_hydroxide	Sol.	68°	S	140°	S
	10	68°	S	140°	S
Potassium_hydroxide	20	68°		140°	
	Up_to_50	68°		140°	
Potassium_hypochlorite	Sol.	68°	S	140°	L
Potassium_iodide	Sat._Sol.	68°		140°	
Potassium_nitrate	Sat._Sol.	68°	S	140°	S
Potassium_orthophosphate	Sat._Sol.	68°	S	140°	S
Potassium_perchlorate	Sat._Sol.	68°	S	140°	S
Potassium_permanganate	20	68°	S	140°	S
Potassium_persulphate	Sat._Sol.	68°	S	140°	S
Potassium_sulphate	Sat._Sol.	68°	S	140°	S
Potassium_sulphide	Sat._Sol.	68°	S	140°	S
Potassium_sulphite	Sat._Sol.	68°	S	140°	S
Potassium_thiosulphate	Sat._Sol.	68°	S	140°	S
Propane,_gas	tg-g	68°			
Propionic_acid	50	68°	S	140°	S
	>_50	68°			
	tg-l	68°	S	140°	L
Pyridine	tg-l	68°	S	140°	L
Salicylic_acid	Sat._Sol.	68°	S	140°	S
Silicne_oil	tg-l	68°		140°	
Silver_acetate	Sat._Sol.	68°	S	140°	S
Silver_cyanide	Sat._Sol.	68°	S	140°	S
Silver_nitrate	Sat._Sol.	68°	S	140°	S
Sodium_acetate	Sat._Sol.	68°	S	140°	S
Sodium_antimonate	Sat._Sol.	68°	S	140°	S
Sodium_arsenite	Sat._Sol.	68°	S	140°	S
Sodium_benzoate	Sat._Sol.	68°	S	140°	S
Sodium_bicarbonate	Sat._Sol.	68°	S	140°	S



KING PLASTIC CORPORATION

Chemical Resistance Table LDPE

Symbols used for the chemical resistance of the materials

- S = Satisfactory
- L = Limited
- NS = Not Satisfactory

The concentration and/or the purity of each chemical is indicated in the table using the following symbols:

- Sat. sol. = Saturated aqueous solution, prepared at 68° F.
 - Sol. = Aqueous solution at a concentration higher than 10%, but not saturated.
 - Dil. sol. = Dilute aqueous solution at a concentration equal to or less than 10%.
 - Work. Sol. = Working solution of the concentration usually used in the industry concerned.
 - Susp. = Suspension of solid in a saturated solution at 68° F.
 - tg = At least technical grade purity.
 - tg-s = Technical grade, solid.
 - tg-l = Technical grade, liquid.
 - tg-g = Technical grade, gas.
- The concentrations are expressed as a percentage by mass at 68° F, unless otherwise stated.

Chemical or Product	Concentration%	Temperature °F			
		CR		CR	
Sodium_bisulphate	Sat._Sol.	68°	S	140°	S
Sodium_bromide	Sat._Sol.	68°	S	140°	S
Sodium_carbonate	Sat._Sol.	68°	S	140°	S
	25	68°	S	140°	S
	Up_to_50	68°	S	140°	S
Sodium_chlorate	Sat._Sol.	68°	S	140°	S
Sodium_chloride	Sat._Sol.	68°	S	140°	S
	10	68°	S	140°	S
Sodium_chlorite	2	68°	S	140°	
	20	68°		140°	
Sodium_chromate	Dil._Sol.	68°	S	140°	S
Sodium_cyanide	Sat._Sol.	68°	S	140°	S
Sodium_dichromate	Sat._Sol.	68°	S	140°	S
Sodium_ferricyanide	Sat._Sol.	68°	S	140°	S
Sodium_ferrocyanide	Sat._Sol.	68°	S	140°	S
Sodium_fluoride	Sat._Sol.	68°	S	140°	S
Sodium_hydrogen_sulphite	Sat._Sol.	68°	S	140°	S
Sodium_hydroxide	Sol.	68°	S	140°	S
	Sat._Sol.	68°		140°	
	1	68°	S	140°	
	10_to_35	68°	S	140°	S
Sodium_hydroxide	40	68°	S	140°	S
	10_to_60	68°		140°	
Sodium_hypchlorite	5	68°		140°	
	10_to_15	68°	S	140°	S
Sodium_hypchlorite	12.5%_Cl	68°	S	140°	S
Sodium_metaphosphate	Sol.	68°			
Sodium_nitrate	Sat._Sol.	68°	S	140°	S
Sodium_nitrite	Sat._Sol.	68°	S	140°	S
Sodium_perborate	Sat._Sol.	68°			
Sodium_phosphate,_acid	Sat._Sol.	68°	S	140°	S
Sodium_phosphate,_neutral	Sat._Sol.	68°	S	140°	S
Sodium_silicate	Sat._Sol.	68°	S	140°	S
Sodium_sulphate	Sat._Sol.	68°	S	140°	S
	0,1	68°	S	140°	S
Sodium_sulphide	Sat._Sol.	68°	S	140°	S

Chemical Resistance Table LDPE

Symbols used for the chemical resistance of the materials

S = Satisfactory

L = Limited

NS = Not Satisfactory

The concentration and/or the purity of each chemical is indicated in the table using the following symbols:

Sat. sol. = Saturated aqueous solution, prepared at 68° F.

Sol. = Aqueous solution at a concentration higher than 10%, but not saturated.

Dil. sol. = Dilute aqueous solution at a concentration equal to or less than 10%.

Work. Sol. = Working solution of the concentration usually used in the industry concerned.

Susp. = Suspension of solid in a saturated solution at 68° F.

tg = At least technical grade purity.

tg-s = Technical grade, solid.

tg-l = Technical grade, liquid.

tg-g = Technical grade, gas.

The concentrations are expressed as a percentage by mass at 68° F, unless otherwise stated.

Chemical or Product	Concentration%	Temperature °F			
		68°	CR	140°	CR
Sodium_sulphite	Sat._Sol.	68°	S	140°	S
	40	68°	S	140°	S
Sodium_thiosulphate	Sat._Sol.	68°		140°	
Soybean_oil	Work._Sol.	68°		140°	
Sulphur_dioxide,_dry_gas		68°	S	140°	S
Suphur_dioxide,_wet_gas		68°		140°	
Sulphur_trioxide	tg-l	68°	NS	140°	NS
Sulphuric_acid	Up_to_10	68°	S	140°	S
	15	68°	S	140°	S
	10_to_30	68°	S	140°	S
	10_to_50	68°	S	140°	S
	50	68°	S		
Sulphuric_acid				140°	S
	50_to_75	68°	S	140°	S
	50_to_90	68°		140°	
	75_to_90	68°		140°	
	95	68°		140°	
	96	68°		140°	
	98	68°	S	140°	NS
Fuming		68°	NS	140°	NS
Sulphurous_acid	Up_to_30	68°	S	140°	S
Tannic_acid	Sol.	68°	S	140°	S
Tartaric_acid	Sol.	68°	S	140°	S
Fuming		68°	S	140°	S
Tetrahydrofuran	tg-l	68°		140°	
Tetralin tg-l 2060					
Thionyl_chloride	tg-l	68°	NS	140°	NS
Tiophene tg-l 2060					
Tin_(II)_chloride	Sat._Sol.	68°	S	140°	S
Tin_(IV)_chloride	Sol.	68°	S	140°	S
Toluene	tg-l	68°	L	140°	NS
Trichloroacetic_acid	Up_to_50	68°		140°	
Trichlorobenzene	Work._Sol.	68°		140°	
Trichloroethylene	tg-l	68°	NS	140°	NS
Triethanolamine	Sol.	68°	S	140°	L



Chemical Resistance Table LDPE

Symbols used for the chemical resistance of the materials

- S = Satisfactory
- L = Limited
- NS = Not Satisfactory

The concentration and/or the purity of each chemical is indicated in the table using the following symbols:

- Sat. sol. = Saturated aqueous solution, prepared at 68° F.
- Sol. = Aqueous solution at a concentration higher than 10%, but not saturated.
- Dil. sol. = Dilute aqueous solution at a concentration equal to or less than 10%.
- Work. Sol. = Working solution of the concentration usually used in the industry concerned.
- Susp. = Suspension of solid in a saturated solution at 68° F.
- tg = At least technical grade purity.
- tg-s = Technical grade, solid.
- tg-l = Technical grade, liquid.
- tg-g = Technical grade, gas.

The concentrations are expressed as a percentage by mass at 68° F, unless otherwise stated.

Chemical or Product	Concentration%	Temperature °F			
		68°		140°	
		CR	CR	CR	CR
Turpentine	tg-l				
	tg-l				
Urea	Sol.	S	S	S	S
	Sat._Sol.				
Urine		S	S	S	S
Vegetable_oils	tg-l				
Vinegar	Work._Sol.	S	S	S	S
Water		S	S	S	S
Water,_brackish		S	S	S	S
Water,_distilled		S	S	S	S
Water,_fresh		S	S	S	S
Water,_mineral	Work._Sol.	S	S	S	S
Water,_potable	Work._Sol.	S	S	S	S
Water,_sea		S	S	S	S
Whiskey	Work._Sol.	S	S	S	S
Wine	Work._Sol.	S	S	S	S
Wines_and_spirits	Work._Sol.	S	S	S	S
Xylenes	tg-l	L	L	NS	NS
Yeast	Susp.	S	S	S	S
Zinc_carbonate	Susp.	S	S	S	S
Zinc_chloride	Sat._Sol.	S	S	S	S
	58	S	S	S	S
Zinc_nitrate	Sat._Sol.	S	S	S	S
Zinc_oxide	Susp.	S	S	S	S
Zinc_sulphate	Sat._Sol.	S	S	S	S

The information transmitted herewith is given in good faith. King Plastic products are manufactured to the highest quality standards. The suitability for application and the performance of any products manufactured by King Plastic Corporation is the sole responsibility of the end user.