

# POLYETHYLENE (PE) AND POLYPROPYLENE (PP) RESISTANCE INDEXES TO THE MENTIONED AGENTS

CORROSIVE AGENT	CHEMICAL CONCENTRATION	PE		20°C	PP 60°C	100°C
		20°C	60°C			
Acetic Acid	<60%	+	+	+	+	+
Acetic Chlorinated Acid	<20%	+	+	+	+	
Acetone		+	+	+	+	+
Adhesive		+	+	+	+	+
Adipic Acid		+	+	+	+	+
Aluminium Chloride	<GL	+	+	+	+	+
Aluminium Sulphate	<GL	+	+	+	+	+
Ammonia Water	<GL	+	+	+	+	
Ammonium Chloride	<GL	+	+	+	+	+
Ammonium Nitrate	<GL	+	+	+	+	+
Ammonium Sulphate	<GL	+	+	+	+	
Ammonium Sulphate	<GL	+	+	+	+	
Amyl Acetate		+	+	+	+	o
Aniline	s.w.s.	+	+	+	+	+
Arsenic	<30%	+	+	+	+	
Battery Acid	H	+	+	+	+	
Beer		+	+	+	+	+
Benzoic Acid		+	+	+	+	+
Bleaching Active Solution	active 12%	o	-	o	o	-
Borax	<GL	+	+	+	+	+
Boric Acid	TR	+	+	+	+	+
Butyric Acid		+	+	+	+	o
Calcium Chloride	<GL	+	+	+	+	+
Calcium Hydrate	+	+	+	+	+	
Calcium Nitrate	<GL	+	+	+	+	+
Carbon Dioxide	<GL	+	+	+	+	
Carbonic Acid		+	+	+	+	+
Caustic Soda	15%	+	+	+	+	+
Citric Acid		+	+	+	+	+
Coconut Oil		+	+	+	+	+
Copper Chloride (II)	<GL	+	+	+	o	
Copper Sulphate (II)	<GL	+	+	+	+	
Cresol	s.w.s.	+	+	+	+	+
Cyclohexanone	pure	+	+	+	+	o
Diesel		+	o	+	o	
Distilled Water		+	+	+	+	+
Ethane		+	+	+	+	+
Ethanol Amine	pure	+	+	+	+	o
Ethyl Acetate		+	o	+	o	-
Ethyl Alcohol		+	+	+	+	
Ethyl Benzol		o	o	o	o	
Ethyl Diamine		+	+	+	+	+
Ethyl Oxide		+	+	+	+	
Ethylene Glycol	TR	+	+	+	+	+
Fatty Acids	TR	+	o	+	+	
Fixing Bath	H	+	+	+	+	
Fluorboric Acid		+	+	+	+	
Fluorsalicylic Acid		+	+	+	+	+
Formaldehyde	<15%	+	+	+	+	
Formic Acid	<85%	+	+	+	o	
Fruit Acids		+	+	+	+	+
Frutis Juice		+	+	+	+	+
Glycerol	<100%	+	+	+	+	
Glycolic Acid	<GL	+	+	+	o	
Heptane		+	o	+	o	-
Hexane		+	o	+	o	o
Hydrochloric Acid		+	+	+	+	o
Hydrofluoric Acid	<40%	+	o	+	-	
Hydroxilamine Sulphate	<12%	+	+	+	+	
Iron Chloride (II)	<GL	+	+	+	+	
Iron Chloride (III)	<GL	+	+	+	+	+
Isottano		+	o	+	o	o

CORROSIVE AGENT	CHEMICAL CONCENTRATION	PE		20°C	PP 60°C	100°C
		20°C	60°C			
Lactic Acid		+	+	+	+	+
Lemonade		+	+	+	+	+
Lead Acetate	<GL	+	+	+	+	
Linseed Oil		+	+	+	+	+
Lubricating Oil		+	+	+	+	+
Magnesium Chloride	<GL	+	+	+	+	
Magnesium Sulphate	<GL	+	+	+	+	+
Malic Acid		+	+	+	+	+
Methanol		+	+	+	+	+
Methyl Alcohol	all	+	+	+	+	
Metil Amina	32%	+	o	+	o	
Metyl Chloride		o	o	o	o	o
Milk		+	+	+	+	+
Mineral Oil		+	+	+	+	o
Molasses		+	+	+	+	+
Nichel Chloride (II)		+	+	+	+	+
Nichel Sulphate	<GL	+	+	+	+	
Nitric Acid	65%	o		o		
Nonyl Alcohol		+	+	+	+	
Oleo Margarine		+	+	+	+	+
Palmitic Acid		+	+	+	+	o
Paraffin		+	+	+	+	+
Perchloric Acid	10%	+	+	+	+	
Petrol	H	+	o	o	-	
Photos Developper	H	+	+	+	+	
Phosphoric Acid	85%	+	+	+	+	+
Potassium Borate	<GL	+	+	+	+	
Potassium Bromate	<GL	+	+	+	+	+
Potassium Bromide	<GL	+	+	+	+	+
Potassium Carbonate	<GL	+	+	+	+	+
Potassium Chloride	<GL	+	+	+	+	+
Potassium Hydroxide	<50%	+	+	+	+	+
Potassium Manganate	<10%	+	+	+	o	
Potassium Nitrate	<GL	+	+	+	+	+
Potassium Sulphate	<GL	+	+	+	+	
Salicylic Acid		+	+	+	+	+
Silicon Oil		+	+	+	+	+
Sodium Salt		+	+	+	+	
Sodium Carbonate		+	+	+	+	+
Sodium Chlorate	<GL	+	+	+	+	+
Sodium Chloride	<GL	+	+	+	+	+
Sodium Hydrate	45%	+	+	+	+	+
Sodium Hypochloride	active 12%	o	-	o	o	-
Sodium Hypochloride	active 12%	o	-	o	o	-
Stearic Acid		+	o	+	o	o
Styrole		o		o		
Succinic Acid		+	+	+	+	+
Suds		+	+	+	+	+
Sugar		+	+	+	+	+
Sulphchromic Acid	150 g/l + 50 g/l	-		-		
Sulphoric Acid	96%	+	o	+	o	
Tartaric Acid		+	+	+	+	+
Tetrachloride Ethylene		+	o	+	o	-
Trichloroethano		o	-	o	-	
Tuolene		o		o		
Unlead Fuel	100%	+	o	+	o	
Urea	<GL	+	+	+	+	
UV		+	+	+	+	+
Wine		+	+	+	+	+
Xilene		o	-	o	-	
Zinc Chloride		+	+	+	+	+

Data contained in this chemical resistance chart are guidelines. No guarantee can be provided for the reported information.

#### KEY

**H** = commonly in commerce  
**GL** = saturated solution

**TR** = technically pure  
**S** = suspension or dispersion

**s.w.s** = saturated water solution  
**+** = c.a. (corrosion agent) proof

**o** = c.a. quite proof  
**-** = c.a. unproof