

CHEMICAL RESISTANCE CHART FOR PLASTICS

AGENT (INCLUDING CONCENTRATION, °C)			NYLON*	ACETAL	POLYETHYLENES			POLY- PRO- PYLENE	PVC	CPVC	TEFLON	ACRYLIC	POLY- CARBO- NATE
					LOW DENSITY	HIGH DENSITY	UHMW						
ACETALDEHYDE	40%	20°	—	—	—	—	L	—	U	U	S	—	—
	100%	20°	L	L	U	U	U	U	U	U	S	U	—
	100%	60°	L	L	U	U	U	U	U	U	S	U	—
ACETIC ACID	10%	20°	S	S	S	S	S	S	S	S	S	S	S
		60°	L	U	S	S	S	S	S	L	S	S	S
	20%	20°	L	U	S	S	—	S	S	S	S	—	L
		60°	U	U	L	L	—	L	S	L	S	—	—
	50%	20°	U	U	L	S	S	S	S	S	S	S	—
		60°	U	U	L	L	S	L	S	U	S	—	—
80-100%	20°	U	U	L	L	S	S	U	U	S	U	U	
	60°	U	U	U	U	L	U	U	U	S	U	U	
ACETIC ACID-GLACIAL		20°	U	U	S	S	S	S	U	U	S	U	—
		60°	U	U	S	S	L	U	U	U	S	U	—
ACETIC ANHYDRIDE		20°	U	—	U	U	U	U	U	U	S	L	U
		60°	U	—	U	U	U	U	U	U	S	U	U
ACETONE		20°	S	L	S	S	S	S	U	U	S	U	U
		60°	S	L	S	S	S	S	U	U	S	U	U
ACETOPHENONE		20°	—	—	—	—	L	L	U	—	S	U	—
		60°	—	—	—	—	L	L	U	—	S	U	—
ACETYLENE		20°	S	—	U	L	—	L	S	S	S	—	—
		60°	—	—	U	U	—	U	S	S	S	—	—
ADIPIC ACID		20°	—	—	S	S	S	S	S	S	S	—	—
		60°	—	—	L	L	S	L	S	S	S	—	—
ALLYL ALCOHOL	96%	20°	L	—	S	S	S	S	U	U	S	—	—
		60°	—	—	S	S	L	S	L	L	S	U	—
ALLYL CHLORIDE		20°	L	—	S	S	S	S	U	U	S	—	—
		60°	—	—	S	S	—	S	U	U	S	—	—
ALUM		20°	—	—	S	S	S	S	S	S	S	—	—
		60°	—	—	S	S	S	S	S	S	S	—	—
ALUMINUM CHLORIDE		20°	L	—	S	S	S	S	S	S	S	S	S
		60°	—	—	S	S	S	S	S	S	S	S	—
ALUMINUM FLUORIDE		20°	—	—	S	S	S	S	S	S	—	S	—
		60°	—	—	S	S	S	S	S	S	—	—	—
ALUMINUM HYDROXIDE		20°	—	—	S	S	S	S	S	S	S	—	—
		60°	—	—	S	S	S	S	S	S	S	—	—
ALUMINUM NITRATE		20°	—	—	S	S	S	S	S	S	S	—	—
		60°	—	—	S	S	S	S	S	S	S	—	—

S = SATISFACTORY L = LIMITED RESISTANCE (SOME ATTACK) U = UNSATISFACTORY — = NOT AVAILABLE

CHEMICAL RESISTANCE CHART FOR PLASTICS

AGENT (INCLUDING CONCENTRATION, °C)	NYLON*	ACETAL	POLYETHYLENES			POLY- PRO- PYLENE	PVC	CPVC	TEFLON	ACRYLIC	POLY- CARBO- NATE	
			LOW DENSITY	HIGH DENSITY	UHMW							
ALUMINUM OXYCHLORIDE	20°	—	—	S	S	S	S	S	S	S	—	—
	60°	—	—	S	S	S	S	S	S	S	—	—
ALUMINUM SULPHATE	20°	S	S	S	S	S	S	S	S	S	S	—
	60°	—	—	S	S	S	S	S	S	S	L	—
AMMONIA - DRY GAS	20°	L	S	S	S	S	S	S	S	S	S	U
	60°	U	—	S	S	S	S	S	S	S	—	U
AMMONIA LIQUID	100%	20°	S	S	S	S	S	L	—	S	U	U
	60°	—	S	L	L	—	L	U	°	S	U	U
AMMONIUM CARBONATE	20°	S	—	S	S	S	S	S	S	S	S	U
	60°	—	—	S	S	S	S	S	S	S	—	U
AMMONIUM CHLORIDE	20°	S	S	S	S	S	S	S	S	S	S	S
	60°	L	S	S	S	S	S	S	S	S	S	—
AMMONIUM FLUORIDE	25%	20°	—	—	S	S	S	S	S	—	—	—
	60°	—	—	S	S	S	L	L	S	—	—	—
AMMONIUM HYDROXIDE	28%	20°	S	U	S	S	S	S	S	S	S	U
	60°	U	U	S	S	S	S	S	S	S	—	U
AMMONIUM NITRATE	20°	—	—	S	S	S	S	S	S	S	—	—
	60°	—	—	S	S	S	S	S	S	S	—	—
AMMONIUM PERSULFATE	20°	—	—	S	S	S	S	S	S	S	—	S
	60°	—	—	S	S	S	S	S	S	S	—	S
AMMONIUM PHOSPHATE	60°	—	—	S	S	S	S	S	S	S	—	—
	60°	—	—	S	S	S	S	S	S	S	—	—
AMMONIUM SULPHATE	20°	S	—	S	S	S	S	S	S	S	S	—
	60°	—	—	S	S	S	S	S	S	S	—	—
AMYL ACETATE	100%	20°	S	—	U	L	L	U	U	—	U	—
	60°	—	—	U	U	U	U	U	U	—	U	—
AMYL ALCOHOL	100%	20°	—	—	S	S	S	S	S	S	S	S
	60°	—	—	S	S	S	S	S	—	S	—	L
ANILINE	20°	L	—	L	S	S	S	U	U	S	U	—
	60°	—	L	U	L	L	L	U	U	S	U	—
ANTIMONY TRICHLORIDE	20°	U	—	S	S	S	S	S	J	S	S	—
	60°	U	—	S	S	S	S	U	U	S	S	—
AQUA REGIA	20°	—	—	U	L	L	L	L	U	S	—	L
	60°	—	—	U	U	L	L	U	U	S	—	—
BARIUM CHLORIDE	20°	U	—	S	S	S	S	S	S	S	S	—
	60°	U	—	S	S	S	S	S	S	S	—	—
BARIUM HYDROXIDE	20°	—	—	S	S	S	S	S	S	S	L	U
	60°	—	—	S	S	S	S	S	S	S	—	—

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CHEMICAL RESISTANCE CHART FOR PLASTICS

AGENT (INCLUDING CONCENTRATION, °C)	NYLON*	ACETAL	POLYETHYLENES			POLY- PRO- PYLENE	PVC	CPVC	TEFLON	ACRYLIC	POLY- CARBO- NATE
			LOW DENSITY	HIGH DENSITY	UHMW						
BEER	20°	S	—	S	S	S	S	S	S	S	S
	60°	—	—	S	S	S	S	S	S	—	—
BENZALDEHYDE	20°	L	L	U	U	L	L	U	U	S	U
	60°	U	—	U	U	U	U	U	U	S	U
BENZENE	20°	S	L	U	U	L	U	U	U	S	U
	60°	—	L	U	U	L	U	U	U	S	U
BENZYL CHLORIDE	20°	—	—	—	—	—	S	L	—	S	U
	60°	—	—	—	—	—	S	U	—	S	U
BENZOIC ACID	20°	U	—	S	S	S	S	S	S	S	L
	60°	U	—	S	S	S	U	L	S	S	—
BENZYL ALCOHOL	20°	L	S	—	—	S	S	U	U	S	—
	60°	U	S	—	—	S	L	U	U	S	—
BORAX	20°	—	—	S	S	S	S	S	S	S	S
	60°	—	—	S	S	S	S	S	S	S	—
BORIC ACID	20°	U	U	S	S	S	S	S	S	S	S
	60°	U	U	S	S	S	S	S	S	S	S
BROMIC ACID 10%	20°	—	—	S	S	S	S	S	S	S	—
	60°	—	—	S	S	S	S	S	S	S	—
BROMINE LIQUID 100%	20°	U	—	U	L	L	U	U	U	S	—
	60°	U	—	U	U	U	U	U	U	S	—
BUTANE	20°	S	—	U	U	S	S	S	S	—	—
	60°	S	—	U	U	—	L	S	S	—	—
BUTYL ACETATE	20°	S	L	U	L	L	S	U	U	S	U
	60°	S	L	U	U	U	U	U	U	S	U
BUTYL ALCOHOL	20°	S	—	S	S	S	S	S	S	S	U
	60°	S	—	S	S	S	S	L	L	S	U
BUTYRIC ACID 20%	20°	L	S	U	U	L	S	U	S	S	U
	60°	—	—	U	U	U	S	U	U	S	U
CALCIUM CHLORIDE	20°	L	U	S	S	S	S	S	S	S	S
	60°	U	—	S	S	S	S	S	S	S	U
CALCIUM HYDROXIDE	20°	—	S	S	S	S	S	S	S	S	—
	60°	—	S	S	S	S	S	S	S	S	—
CALCIUM NITRATE	20°	—	—	S	S	S	S	S	S	S	—
	60°	—	—	S	S	S	S	S	S	S	—
CALCIUM SULFATE	20°	—	—	S	S	S	S	S	S	S	—
	60°	—	—	S	S	S	S	S	S	S	—
CARBON BISULPHIDE	20°	—	—	U	U	U	U	U	U	S	—
	60°	—	—	U	U	U	U	U	U	S	—

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			LOW DENSITY	HIGH DENSITY	UHMW							
CARBON DISULPHIDE	20°	S	S	U	U	U	U	U	U	S	U	—
	60°	—	—	U	U	U	U	U	U	S	U	—
CARBON TETRACHLORIDE	20°	S	L	U	U	U	U	L	L	S	L	L
	60°	—	—	U	U	U	U	U	U	S	U	—
CARBONIC ACID	20°	S	S	S	S	S	S	S	S	S	S	—
	60°	—	—	S	S	S	S	S	S	S	—	—
CASTOR OIL	20°	S	S	S	S	S	S	S	S	S	S	S
	60°	S	—	S	S	S	S	S	S	S	—	—
CHLORAL HYDRATE	20°	U	—	U	U	U	U	S	S	S	U	—
	60°	U	—	U	U	U	U	S	S	S	U	—
CHLORINE GAS	20°	U	U	L	L	L	S	S	S	S	L	S
	60°	U	U	U	U	U	L	L	L	S	—	—
CHLORINE LIQUID	20°	U	—	U	U	U	U	U	U	S	U	—
	60°	U	—	U	U	U	U	U	U	S	U	—
CHLORINE WATER 2%	20°	U	U	L	S	S	S	S	S	S	L	—
	60°	U	U	U	S	S	S	S	S	S	—	—
CHLOROBENZENE	20°	S	L	U	L	L	U	U	U	S	U	U
	60°	S	—	U	U	U	U	U	U	S	U	U
CHLOROFORM	20°	L	U	U	L	L	U	U	U	S	U	U
	60°	—	U	U	U	U	U	U	U	S	U	U
CHLOROSULFONIC ACID	20°	U	—	U	U	U	L	L	L	S	U	—
	60°	U	—	U	U	U	U	U	U	S	U	—
CHROMIC ACID 10%	20°	U	U	L	S	S	S	U	U	S	U	—
	60°	U	U	L	S	S	S	U	U	S	U	L
CHROMIC ACID 50%	20°	U	U	L	S	S	S	U	U	S	U	—
	60°	U	U	U	S	S	L	U	U	S	U	—
CITRIC ACID 10%	20°	S	S	S	S	S	S	S	S	S	S	S
	60°	—	—	S	S	S	S	S	S	S	S	—
COPPER CHLORIDE	20°	U	S	S	S	S	S	S	S	S	S	—
	60°	U	—	S	S	S	S	S	S	S	S	—
COPPER SULPHATE	20°	L	S	S	S	S	S	S	S	S	S	—
	60°	—	—	S	S	S	S	S	S	S	S	—
CRESOL	20°	U	—	U	U	U	U	U	S	S	U	U
	60°	U	—	U	U	U	U	U	U	S	U	U
CRUDE OIL	20°	S	S	U	U	S	S	S	S	S	—	—
	60°	S	—	U	U	L	L	S	S	S	—	—
CYCLOHEXANOL	20°	S	—	L	S	S	S	U	U	S	U	—
	60°	S	—	L	S	S	L	U	U	S	U	—

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			LOW DENSITY	HIGH DENSITY	UHMW							
CYCLOHEXANONE	20°	S	S	U	U	L	U	U	U	S	U	—
	60°	S	—	U	U	U	U	U	U	S	U	—
DIBUTYL PHTHALATE	20°	S	S	—	—	S	S	U	U	S	L	—
	60°	—	—	—	—	S	L	U	U	S	U	—
DIOXANE	20°	S	L	U	U	—	S	U	U	S	U	—
	60°	—	L	U	U	—	U	U	U	S	U	—
ETHER	20°	—	—	U	U	L	U	U	U	—	U	S
	60°	—	—	U	U	U	U	U	U	—	U	—
ETHYL ACETATE	20°	S	L	L	L	S	S	U	U	S	U	U
	60°	—	L	U	L	L	S	U	U	S	U	U
ETHYL ALCOHOL 30%	20°	S	L	S	S	S	S	S	S	S	L	L
	60°	—	L	S	S	S	S	S	S	S	—	—
ETHYL ALCOHOL 100%	20°	S	L	S	S	S	S	S	S	S	U	L
	60°	S	L	S	S	S	S	S	S	S	U	—
ETHYL ETHER	20°	—	—	U	L	L	L	L	U	S	U	—
	60°	—	—	U	U	U	U	U	U	S	U	—
ETHYLENE BROMIDE	20°	—	—	U	U	—	U	U	U	S	U	—
	60°	—	—	U	U	—	U	U	U	S	U	—
ETHYLENE DICHLORIDE	20°	S	L	U	U	U	U	U	U	S	U	U
	60°	S	L	U	U	U	U	U	U	S	U	U
ETHYLENE GLYCOL	20°	S	—	S	S	S	S	S	S	S	S	S
	60°	U	—	S	S	S	S	S	S	S	—	—
FERRIC CHLORIDE	20°	S	L	S	S	S	S	S	S	S	S	S
	60°	—	—	S	S	S	S	S	S	S	—	S
FERROUS CHLORIDE	20°	L	S	S	S	S	S	S	S	—	S	—
	60°	—	—	S	S	S	S	S	S	—	S	—
FERROUS SULPHATE	20°	—	—	S	S	S	S	S	S	—	S	—
	60°	—	—	S	S	S	S	S	S	—	L	—
FLUORINE GAS	20°	U	U	U	L	L	U	U	L	U	—	—
	60°	U	U	U	U	U	U	U	U	U	—	—
FORMALDEHYDE 30%	20°	L	S	S	S	S	S	S	S	S	S	—
	60°	—	—	L	S	S	S	S	S	S	—	—
FORMIC ACID 10%	20°	U	U	S	S	S	S	S	S	S	S	L
	60°	U	U	S	S	S	S	L	S	S	L	—
FORMIC ACID 50%	20°	U	U	S	S	S	S	S	S	S	L	L
	60°	U	U	S	S	S	S	U	S	S	U	—
FREON 12	20°	S	S	S	S	—	S	S	S	S	—	U
	60°	—	—	L	S	—	S	S	S	S	—	U

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			LOW DENSITY	HIGH DENSITY	UHMW							
GAS NATURAL	20°	—	—	U	L	—	S	S	S	S	S	—
	60°	—	—	U	U	—	L	L	S	S	—	—
GASOLINE (PETROL)	20°	S	L	U	L	L	U	S	S	S	U	U
	60°	—	—	S	S	S	S	S	S	S	—	—
GLYCEROL (GLYCERINE)	20°	S	S	S	S	S	S	S	S	S	S	S
	60°	—	—	S	S	S	S	S	S	S	—	—
GLYCOL	20°	S	—	S	S	S	S	S	S	S	S	—
	60°	—	—	S	S	S	S	S	S	S	—	—
HEPTANE	20°	S	S	U	L	S	L	L	S	S	S	S
	60°	S	S	U	U	L	U	L	S	S	—	—
HEXANE	20°	S	L	U	U	S	L	S	S	S	S	S
	60°	—	L	U	U	—	U	L	L	S	—	—
HYDROCHLORIC ACID 20%	20°	U	U	S	S	S	S	S	S	S	S	S
	60°	U	U	S	S	S	S	S	S	S	S	—
	80°	U	U	—	—	S	—	L	S	S	L	—
HYDROCHLORIC ACID 40%	20°	U	S	S	S	S	S	S	S	S	L	—
	60°	U	U	S	S	S	S	S	S	S	S	—
HYDROCYANIC ACID	20°	—	—	S	S	S	S	S	S	S	U	—
	60°	—	—	S	S	S	S	S	S	S	U	—
HYDROFLUORIC ACID 25%	20°	U	—	S	S	S	S	S	S	S	—	S
	60°	U	—	L	S	S	S	L	L	S	—	U
HYDROFLUORIC ACID 40%	20°	U	—	S	S	S	S	S	S	S	L	—
	60°	U	—	L	S	S	S	L	L	S	—	—
HYDROFLUORIC ACID CONC.	20°	U	—	—	S	S	S	S	S	S	U	—
	60°	U	—	—	—	S	—	L	L	S	U	—
HYDROGEN PEROXIDE 30%	20°	U	U	S	S	S	S	S	S	S	S	S
	60°	U	U	L	S	S	S	S	S	S	—	—
HYDROGEN PEROXIDE 90%	20°	U	U	U	S	S	S	S	S	S	U	—
	60°	U	U	U	L	L	L	S	S	S	U	—
IODINE (IN ALCOHOL)	20°	U	—	U	U	L	S	U	U	S	U	S
	60°	U	—	U	U	L	L	U	U	S	U	—
ISOPROPYL ALCOHOL	20°	L	S	S	S	S	S	S	S	S	L	S
	60°	—	—	S	S	S	S	S	S	S	—	—
KEROSENE	20°	S	S	U	L	L	L	S	S	S	S	S
	60°	S	S	U	U	L	U	S	S	S	—	—
LUBRICATING OILS	20°	S	S	U	L	S	L	S	S	S	S	S
	60°	S	S	U	L	L	U	S	S	S	—	—

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			LOW DENSITY	HIGH DENSITY	UHMW							
MAGNESIUM CHLORIDE	20°	S	S	S	S	S	S	S	S	S	—	
	60°	—	—	S	S	S	S	S	S	S	—	
MAGNESIUM SULPHATE	20°	S	S	S	S	S	S	S	S	S	—	
	60°	—	—	S	S	S	S	S	S	S	—	
MERCURIC CHLORIDE	20°	S	—	S	S	S	S	S	S	S	—	
	60°	—	—	S	S	S	S	S	S	S	—	
MERCURY	20°	S	—	S	S	S	S	S	S	S	—	
	60°	—	—	S	S	S	S	S	S	S	—	
METHYL ALCOHOL	100%	20°	S	L	S	S	S	S	S	S	U	U
	60°	U	L	S	S	S	S	S	S	S	U	U
METHYL ETHYL KETONE	20°	S	L	U	U	U	U	U	U	S	U	U
	60°	—	L	U	U	U	U	U	U	S	U	U
METHYL SALICYLATE	20°	—	S	—	—	—	S	S	S	S	U	U
METHYL SULPHATE	20°	L	—	U	U	—	L	S	S	—	—	—
	60°	—	—	—	—	—	U	S	S	—	—	—
METHYLENE CHLORIDE	20°	L	L	U	U	U	S	U	U	S	U	U
	60°	—	—	U	U	U	L	U	U	S	U	U
MINERAL OILS	20°	S	S	L	S	S	L	S	S	S	S	—
	60°	S	S	U	U	U	U	S	S	S	—	—
NAPHTHA	20°	S	—	U	L	S	U	U	S	S	U	—
	60°	—	—	U	L	U	U	U	—	S	U	—
NAPHTHALENE	20°	S	—	L	S	L	L	U	U	S	L	—
	60°	—	—	U	U	U	L	U	U	S	—	—
NICKEL CHLORIDE	20°	—	—	S	S	S	S	S	S	S	S	—
	20°	—	—	S	S	S	S	S	S	S	S	—
NICKEL SULPHATE	20°	S	—	S	S	S	S	S	S	S	S	—
	60°	—	—	S	S	S	S	S	S	S	S	—
NITRIC ACID	10%	20°	U	U	S	S	S	S	S	S	S	S
	60°	U	U	S	S	S	S	S	S	S	L	—
NITRIC ACID	CONC.	20°	U	U	U	U	U	U	U	S	U	U
	60°	U	U	U	U	U	U	U	U	S	U	U
NITROBENZENE	20°	L	L	U	U	U	S	U	U	S	U	—
	60°	—	—	U	U	U	S	U	U	S	U	—
OLEIC ACID	20°	S	L	S	S	S	S	S	S	S	—	S
	60°	S	L	S	S	S	S	S	S	S	—	S
OLIVE OIL	20°	S	S	S	S	S	S	S	S	S	L	—
	60°	S	S	L	—	S	S	S	S	S	L	—

S = SATISFACTORY L = LIMITED RESISTANCE (SOME ATTACK) U = UNSATISFACTORY — = NOT AVAILABLE

CHEMICAL RESISTANCE CHART FOR PLASTICS

AGENT (INCLUDING CONCENTRATION, °C)	NYLON*	ACETAL	POLYETHYLENES			POLY- PRO- PYLENE	PVC	CPVC	TEFLON	ACRYLIC	POLY- CARBO- NATE
			LOW DENSITY	HIGH DENSITY	UHMW						
OXALIC ACID 10%	20°	L	U	S	S	S	S	S	S	S	S
	60°	—	—	S	S	S	S	S	S	S	L
OXYGEN	20°	L	—	S	S	S	L	S	S	S	S
	60°	L	—	S	S	S	U	S	S	S	S
OZONE	20°	U	U	U	U	S	L	S	S	S	S
	60°	U	U	U	U	L	U	L	L	S	—
PERCHLOROETHYLENE	20°	L	L	—	—	U	—	U	U	S	L
	60°	—	L	—	—	U	—	U	U	S	U
PETROLEUM ETHER 100%	20°	S	—	U	U	S	L	S	S	S	S
	60°	—	—	U	U	U	L	L	S	S	—
PHENOL	20°	U	U	U	—	L	L	L	—	S	U
	60°	U	U	U	—	U	U	U	—	S	U
PHOSPHORIC ACID 10%	20°	U	U	S	S	S	S	S	S	S	S
	60°	U	U	S	S	S	S	L	S	S	—
PHOSPHORIC ACID 75%	20°	U	U	S	S	S	S	S	S	S	L
	60°	U	U	L	S	S	S	S	S	S	—
PHOSPHORUS, YELLOW	20°	—	—	L	S	S	L	S	S	—	U
	60°	—	—	L	—	S	U	S	S	—	U
PHORPHORUS PENTOXIDE	20°	—	—	L	S	S	S	S	S	S	—
	60°	—	—	L	S	S	L	L	L	S	—
PHOSPHORUS TRICHLORIDE	20°	—	—	L	—	S	L	U	U	S	L
	60°	—	—	U	—	S	U	U	U	S	—
PHOTOGRAPHIC CHEMICALS	20°	—	—	S	S	S	S	S	S	S	S
	60°	—	—	S	S	S	S	S	S	S	L
PLATING SOLUTIONS CHROMIUM	20°	—	—	U	S	L	S	S	S	S	S
	60°	—	—	U	S	L	S	L	S	S	S
OTHERS	20°	—	—	S	S	S	S	S	S	S	S
	60°	—	—	S	S	S	S	S	S	S	S
POTASSIUM BICARBONATE	20°	S	—	S	S	S	S	S	S	S	S
	60°	—	—	S	S	S	S	S	S	S	—
POTASSIUM CARBONATE	20°	S	—	S	S	S	S	S	S	S	S
	60°	—	—	S	S	S	S	S	S	S	—
POTASSIUM CHLORIDE	20°	S	—	S	S	S	S	S	S	S	S
	60°	—	—	S	S	S	S	S	S	S	—
POTASSIUM HYDROXIDE 10%	20°	S	S	S	S	S	S	S	S	S	S
	60°	—	—	S	S	S	S	S	S	S	L
POTASSIUM HYDROXIDE 50%	20°	L	S	S	—	S	—	S	S	S	—
	60°	—	—	L	—	S	—	S	S	S	—

S = SATISFACTORY L = LIMITED RESISTANCE (SOME ATTACK) U = UNSATISFACTORY — = NOT AVAILABLE

CHEMICAL RESISTANCE CHART FOR PLASTICS

AGENT (INCLUDING CONCENTRATION, °C)	NYLON*	ACETAL	POLYETHYLENES			POLY- PRO- PYLENE	PVC	CPVC	TEFLON	ACRYLIC	POLY- CARBO- NATE
			LOW DENSITY	HIGH DENSITY	UHMW						
POTASSIUM NITRATE	20°	S	L	S	S	S	S	S	S	S	—
	60°	—	—	S	S	S	S	S	S	S	—
POTASSIUM PERMANGANATE	20°	U	S	S	S	S	S	S	S	S	—
10%	60°	U	S	S	S	S	S	S	S	S	—
POTASSIUM SULPHATE	20°	S	—	S	S	S	S	S	S	S	—
	60°	—	—	S	S	S	S	S	S	S	—
PROPANE	20°	S	—	U	U	L	L	S	S	S	—
	60°	—	—	U	U	—	U	S	S	S	—
PROPYL ALCOHOL	20°	—	—	S	S	S	S	S	S	S	U
	60°	—	—	S	S	S	S	S	S	S	U
PROPYLENE DICHLORIDE	20°	—	—	U	U	U	L	U	U	—	U
	60°	—	—	U	U	U	U	U	U	—	U
PYRIDINE	20°	S	L	S	S	S	L	U	U	S	—
	60°	—	L	L	L	L	L	U	U	S	—
SALT (SEA) WATER	20°	S	S	S	S	S	S	S	S	S	S
	60°	S	S	S	S	S	S	S	S	S	—
SILICONE OIL	20°	S	—	—	—	S	S	S	S	S	L
	60°	—	—	—	—	L	S	L	S	S	—
SILVER NITRATE	20°	S	—	S	S	S	S	S	S	S	S
	60°	—	—	S	S	S	S	S	S	S	—
SOAPS (IN SOLUTION)	20°	S	S	S	S	S	S	S	S	S	S
	60°	S	S	S	S	S	S	S	S	S	—
SODIUM ACETATE	20°	S	—	S	S	S	S	S	S	S	—
	60°	L	—	S	S	S	S	S	S	S	—
SODIUM BICARBONATE 10%	20°	S	—	S	S	S	S	S	S	S	—
	60°	—	—	S	S	S	S	S	S	S	—
SODIUM BISULPHITE	20°	S	U	S	S	S	S	S	S	S	—
	60°	—	U	S	S	S	S	S	S	S	—
SODIUM CARBONATE	20°	S	S	S	S	S	S	S	S	S	—
	60°	S	S	S	S	S	S	S	S	S	—
SODIUM CHLORATE	20°	S	S	S	S	S	S	S	S	S	—
	60°	—	—	S	S	S	S	S	S	S	—
SODIUM CHLORIDE	20°	S	S	S	S	S	S	S	S	S	S
	60°	S	S	S	S	S	S	S	S	S	—
SODIUM HYDROXIDE 10%	20°	S	L	S	S	S	S	S	S	S	L
	60°	U	L	S	S	S	S	S	S	S	L
SODIUM HYDROXIDE 50%	20°	L	U	S	S	S	S	S	S	S	L
	60°	U	U	S	S	S	S	S	S	S	U

S = SATISFACTORY L = LIMITED RESISTANCE (SOME ATTACK) U = UNSATISFACTORY — = NOT AVAILABLE

CHEMICAL RESISTANCE CHART FOR PLASTICS

AGENT (INCLUDING CONCENTRATION, °C)		NYLON*	ACETAL	POLYETHYLENES			POLY- PRO- PYLENE	PVC	CPVC	TEFLON	ACRYLIC	POLY- CARBO- NATE
				LOW DENSITY	HIGH DENSITY	UHMW						
SODIUM HYPOCHLORITE 20%	20°	L	U	S	S	S	S	S	S	S	S	S
	60°	—	U	S	S	S	L	S	S	S	—	—
SODIUM NITRATE	20°	S	S	S	S	S	S	S	S	S	S	L
	60°	—	—	S	S	S	S	S	S	S	S	—
SODIUM SULPHATE	20°	S	S	S	S	S	S	S	S	S	S	—
	60°	—	—	S	S	S	S	S	S	S	S	—
SODIUM SULPHIDE	20°	S	S	S	S	S	S	S	S	S	S	—
	60°	—	—	S	S	S	S	S	S	S	—	—
SODIUM THIOSULPHATE 25%	20°	S	S	S	S	S	S	S	S	S	S	S
	60°	—	S	S	S	S	S	S	S	S	—	—
STANNOUS CHLORIDE	20°	—	U	S	S	S	S	S	S	S	—	—
	60°	—	U	S	S	S	S	L	S	S	—	—
STEARIC ACID 100%	20°	S	—	S	S	S	S	S	S	S	S	—
	60°	S	S	S	S	S	S	S	S	S	—	—
SULPHUR DIOXIDE DRY GAS	20°	L	L	S	S	S	S	S	S	S	S	S
	60°	—	—	S	S	S	L	S	S	S	S	—
SULPHUR DIOXIDE WET GAS	20°	—	—	S	S	S	S	S	S	S	—	—
	60°	—	—	S	L	S	L	L	L	S	—	—
SULPHURIC ACID 10%	20°	U	U	S	S	S	S	S	S	S	S	S
	60°	U	U	S	S	S	S	S	S	S	L	S
SULPHURIC ACID 50%	20°	U	U	L	S	S	S	S	S	S	L	S
	60°	U	U	L	L	S	S	S	S	S	U	—
SULPHURIC ACID 95%	20°	U	U	U	L	L	S	S	S	S	U	U
	60°	U	U	U	U	U	L	S	S	S	U	U
SULPHUROUS ACID 10%	20°	U	L	S	S	S	S	S	S	S	S	—
	60°	U	—	S	S	S	S	S	S	S	S	—
SULPHUROUS ACID CONC.	20°	U	—	S	S	S	S	S	S	S	L	—
	60°	U	—	S	S	S	S	S	S	S	—	—
TARTARIC ACID	20°	L	S	S	S	S	S	S	S	S	S	—
	60°	—	—	S	S	S	S	S	S	S	S	—
TETRAHYDROFURAN	20°	S	L	U	L	L	L	U	U	S	U	—
	60°	—	—	U	U	L	L	U	U	S	U	—
THIONYL CHLORIDE	20°	U	L	U	U	U	U	U	U	S	U	—
	60°	U	°	U	U	U	U	U	U	S	U	—
TITANIUM TETRACHLORIDE	20°	—	—	—	—	—	U	U	S	—	—	S
	60°	—	—	—	—	—	U	U	U	—	—	U
TOLUENE	20°	S	L	U	U	U	U	U	U	S	U	U
	60°	S	—	U	U	U	U	U	U	S	U	U

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CHEMICAL RESISTANCE CHART FOR PLASTICS

AGENT (INCLUDING CONCENTRATION, °C)	NYLON*	ACETAL	POLYETHYLENES			POLY- PRO- PYLENE	PVC	CPVC	TEFLON	ACRYLIC	POLY- CARBO- NATE	
			LOW DENSITY	HIGH DENSITY	UHMW							
TRICHLOROETHYLENE	20°	L	L	U	U	L	U	U	U	S	U	—
	60°	—	—	U	U	U	U	U	U	S	U	—
TRICRESYL PHOSPHATE	20°	S	—	L	S	—	S	U	U	S	U	—
	60°	S	—	L	L	—	L	U	U	S	U	—
TRIETHANOLAMINE	20°	S	S	S	S	S	S	S	S	S	—	—
	60°	—	—	L	L	L	L	S	S	S	—	—
TRIETHYLAMINE	20°	—	S	—	—	—	L	S	S	—	S	—
	60°	—	L	—	—	—	U	S	S	—	—	—
TRISODIUM PHOSPHATE	20°	S	—	S	S	S	S	S	S	S	S	L
	60°	—	—	S	S	S	S	S	S	S	—	—
TURPENTINE	20°	S	—	U	U	L	L	S	S	S	L	U
	60°	—	—	U	U	U	U	L	S	S	—	U
UREA	20°	S	S	S	S	S	S	S	S	S	—	—
	60°	—	—	S	S	S	S	S	S	S	—	—
URINE	20°	—	—	S	S	S	S	S	S	S	S	—
	60°	—	—	S	S	S	S	L	S	S	—	—
VINEGAR	20°	—	L	S	S	S	S	S	S	S	S	—
	60°	—	—	S	S	S	S	L	S	S	—	—
WATER (DISTILLED)	20°	S	S	S	S	S	S	S	S	S	S	S
	60°	S	S	S	S	S	S	L	S	S	—	—
XYLENE	20°	S	S	U	U	U	U	U	U	S	U	—
	60°	S	—	U	U	U	U	U	U	S	U	—
ZINC CHLORIDE 10%	20°	L	U	S	S	S	S	S	S	S	S	S
	60°	—	U	S	S	S	S	L	S	S	S	—
ZINC SULPHATE	20°	S	—	S	S	S	S	S	S	S	L	—
	60°	—	—	S	S	S	S	S	S	S	L	—

* The figures for nylon are for types 6 and 6/6. Types 11 and 12 are generally more resistant.

TEFLON — Although our chart shows some chemicals not tested with Teflon, most can be regarded as having no significant effect on Teflon. Teflon resins are inert to most chemical reactants. The exceptions are Molten Alkali Metals, Elemental Fluorine, and Fluorine Percursors such as Oxygen Difluoride and Chlorine Trifluoride.

POLYPROPYLENE — It should be noted that contact between Polypropylene and Copper or Copper salts may result in a "Poisoning" of the Polypropylene. This poisoning occurs when copper ions attach themselves to the Polypropylene, and may cause cracking of the Polypropylene.

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Note: Although the information contained here has been obtained from sources believed to be reliable, no warranty (expressed or implied) can be made as to its accuracy. Where no value is listed, sufficient details are not available to present a usable figure. Property data shown are typical average values and will vary on specific production lots and by size and configuration of product. They should be used only as a guide to primary selection for application of a given material and not serve as a substitute for careful testing of prototype parts in typical operating environments. Final determination of the suitability of any material for a specific application is the sole responsibility of the user.