

Chemical Resistance Chart

MDPE

Chemical	Temperature (°C)		
	20	40	60
Acetaldehyde			
Acetaldehyde Aqueous, 40%			
Acetamide	1		
Acetic Acid, 10%	1		
Acetic Acid, 20%	1		
Acetic Acid, 25%	1		
Acetic Acid, 30%	1		
Acetic Acid, 60%	1		
Acetic Acid, 80%	1		
Acetic Acid, 85%	1		
Acetic Acid Glacial, 100%	1		
Acetic Acid, Hot			
Acetic Acid, Vapor	1		
Acetic Anhydride	1		
Acetone			
Acetone, 5%			
Acetone, Pure			
Acetone, up to 5%			
Acetonitrile			
Acetopheneditin	1		
Acetophenone	1		
Acetyl Acetone			
Acetyl Bromide			
Acetyl Chloride			

1 – High Resistance

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Chemical	Temperature (°C)		
	20	40	60
Acetyl Nitrite			
Acetyl-DL-Alanine	1		
Acetyl-DL-Valine-N	1		
Acetyl-DL-Leucine-N	1		
Acetyl-DL-Methionine-N	1		
Acetyl-DL-Tryptohpan-N	1		
Acetylene Gas, 100%	1		
Acetylene Tetrabromide	3		
Acetylnitrile			
Acetylsalicylic Acid	1		
Acrylonitrile	1		
Adipic Acid, Saturated	1		
Aero Lubriplate			
Alanine-DL	1		
Alcohols			
Allyl Alcohol, 96%	1		
Allyl Chloride			
Aloin	1		
Aluminium Acetate, Saturated	1		
Aluminium Ammonium	1		
Aluminium Bromide			
Aluminium Chloride, Saturated	1		
Aluminium Fluoride, Saturated	1		
Aluminium Hydroxide, Saturated	1		

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Chemical	Temperature (°C)		
	20	40	60
Aluminium Nitrate, Saturated	1		
Aluminium Oxalate	2		
Aluminium Oxide	1		
Aluminium Oxychloride			
Aluminium Potassium Sulfate, Sat'd	1		
Aluminium Salts			
Aluminium Sodium Sulfate	1		
Aluminium Sulfate, Saturated	1		
Alums, NH3-Cr-K			
Ambrex 33 (Mobil)			
Ambrex 830 (Mobil)			
Amines			
Amino Acetic Acid	1		
Aminobutric-A-DL Acid	1		
Aminoisobutyric-2 Acid	1		
Ammonia Anhydrous	2		
Ammonia Gas	1		
Ammonia Gas, Cold			
Ammonia Liquid	1		
Ammonium Acetate, Saturated	1		
Ammonium Benzoate			
Ammonium Bifluoride, Saturated	1		
Ammonium Bisulfide			
Ammonium Bromide	1		

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Chemical	Temperature (°C)		
	20	40	60
Ammonium Carbonate, Saturated	1		
Ammonium Chloride, Saturated	1		
Ammonium Citrate			
Ammonium Dichromate	2		
Ammonium Fluoride, 10%	1		
Ammonium Fluoride, 20%			
Ammonium Fluoride, 25%	1		
Ammonium Fluoro Silicate			
Ammonium Glycolate	1		
Ammonium Hydroxide	1		
Ammonium Molybdate	1		
Ammonium Nitrate, Saturated	1		
Ammonium Nitrite			
Ammonium Oxalate			
Ammonium Oxylate	2		
Ammonium Persulfate	1		
Ammonium Persulfate, 10%			
Ammonium Phosphate, Dibasic	1		
Ammonium Phosphate, Monobasic	1		
Ammonium Phosphate			
Ammonium Potassium	1		
Ammonium Sulfamate			
Ammonium Sulfate	1		
Ammonium Sulfide, Dilute	1		

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Chemical	Temperature (°C)		
	20	40	60
Ammonium Sulfocyanide	1		
Ammonium Tartarate			
Ammonium Thiocyanate	1		
Ammonium Thioglycolate	2		
Ammonia Acetate, Saturated	1		
Ammonia Gas	1		
Ammonia Liquid	1		
Amyl Acetate	1		
Amyl Alcohol, Pure	1		
Amyl Borate			
Amyl Chloride			
Amyl Chloronaphthalene			
Amyl Naphthalene			
Amyl Phthalate	1		
Ang-25 (Gyceral Ester)			
Aniline	1		
Aniline Chlorohydrate			
Aniline Dyes			
Aniline Hydrochloride	1		
Aniline Sulphate	2		
Animal Oil			
Anthranilac Acid	1		
Anthraquinone			
Anthraquinone Sulfonic	1		

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Chemical	Temperature (°C)		
	20	40	60
Antimony Trichloride	1		
Aqua Regia	3		
Arachidic Acid			
Argon, Dry			
Aromatic Fuel, 50%			
Aromatic Hydrocarbons			
Arsenic Acid, 80%	1		
Arsenic Trioxide (Powder)	2		
Arylsulfonic Acid	1		
Ascorbic Acid			
Askarel			
Asphalt	3		
ASTM Oil, No. 1			
ASTM Oil, No. 2			
ASTM Oil, No. 3			
Atropine Sulfate	1		
Aurex 903R (Mobil)			
Automatic Transmission Fluid			
Automotive Brake Fluid	1		
Bardol B			
Barium Acetate, Saturated			
Barium Bromide	1		
Barium Carbonate, Saturated	1		
Barium Chloride, Saturated	1		

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Chemical	Temperature (°C)		
	20	40	60
Barium Cyanide			
Barium Hydroxide, 10%			
Barium Hydroxide, Saturated	1		
Barium Nitrate, Saturated	1		
Barium Sulfate, Saturated	1		
Barium Sulfide, Saturated	1		
Bayol 35			
Bayol D			
Beer	1		
Beet Sugar Liquors	1		
Benzal Chloride			
Benzaldehyde	3		
Benzaldehyde, 1%	1		
Benzaldehyde, 10%	1		
Benzaldehyde, > 10%			
Benzaldehyde, 5%	1		
Benzalkonium Chloride	2		
Benzamide			
Benzene	2		
Benzene Sulfonic Acid, Saturated	1		
Benzene Sulfonic Acid, 10%	3		
Benzenesulfonic Acid	1		
Benzenesulfonic Acid, 10%	1		
Benzine			

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Chemical	Temperature (°C)		
	20	40	60
Benzochloride			
Benzoic Acid, All	1		
Benzoic Acid Crystals	1		
Benzoic Sulfimide			
Benzophenone			
Benzotrichloride			
Benzotrifluoride			
Benzoyl Benzoic Acid			
Benzoyl Chloride			
Benzyl Acetate	2		
Benzyl Alcohol	1		
Benzyl Alcohol, 1.5%	2		
Benzyl Benzoate			
Benzyl Chloride			
Beryllium Sulfate			
Bismuth Carbonate	1		
Black Liquor	1		
Black Point 77			
Blast Furnace Gas			
Bleach, 12% Active Cl ₂			
Bleach, 5% Active Cl ₂			
Bleach Liquor			
Blood			
Borax, Saturated	1		

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Chemical	Temperature (°C)		
	20	40	60
Bordeaux Mixture			
Boric Acid, 10%	1		
Boric Acid, Saturated	1		
Boron Fluids (HEF)			
Boron Trifluoride	2		
Brake Fluid			
Brine, Saturated			
Brom-113			
Brom-114			
Bromic Acid			
Bromic Acid, 10%			
Bromine, Aqueous			
Bromine Liquid	3		
Bromine Pentafluoride			
Bromine Trifluoride			
Bromine Vapor, 25%	1		
Bromine Water Cold, Saturated	3		
Bromoacetic Acid			
Bromobenzene	3		
Bromobutyric-2 Acid	2		
Bromochloro			
Bromoform	3		
Bromosalicylic Acid, Saturated	1		
Bromotoluene	3		

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Chemical	Temperature (°C)		
	20	40	60
Bunker Oil			
Butadiene			
Butadiene, 50%	1		
Butadiene, Gas			
Butanane-2,4-P-Methoxy	3		
Butane, 50%	1		
Butane Gas			
Butter – Animal Fat			
Butyl Acetate			
Butyl Acetyl Ricinoleate			
Butyl Acrylate Pure			
Butyl Alcohol	1		
Butyl Benzoate			
Butyl Bromide			
Butyl Butyrate			
Butyl Carbitol			
Butyl Cellosolve			
Butyl "Cellosolve" Adipate			
Butyl Chloride	3		
Butyl Ether			
Butyl Glycolate			
Butyl Mercaptan			
Butyl Oleate			
Butyl Phenol	1		

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Chemical	Temperature (°C)		
	20	40	60
Butyl Phthalate			
Butylamine, Saturated			
Butylene, Liquid			
Butyric Acid			
Butyric Acid, Pure			
Calcium Bisulfide			
Calcium Bisulfite			
Calcium Carbonate			
Calcium Chlorate			
Calcium Chloride, Saturated			
Calcium Hydroxide, 30%			
Calcium Hydroxide, Saturated			
Calcium Hypochlorite			
Calcium Nitrate, Saturated			
Calcium Sulfate			
Calcium Sulfide, Saturated			
Camphor Oil			
Carbon Dioxide, Pure Anhydrous	1	1	1
Carbon Dioxide, Pure Moist	1	1	1
Carbon Disulfide			
Carbon Monoxide, Gas			
Carbon Tetrachloride			
Carbonic Acid, Saturated			
Caustic Potash, 50%			

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MDPE

Chemical	Temperature (°C)		
	20	40	60
Caustic Soda, 10%			
Caustic Soda, 50%			
Caustic Soda, up to 40%			
Chloral Hydrate, All			
Chloramine, Diluted			
Chloric Acid, 10%			
Chloric Acid, 20%			
Chlorinated Water, 0.3% Saturated	1	1	1
Chlorine, Liquid			
Chloroacetic Acid, 50%			
Chlorobenzene, Dry			
Chloroform, Dry			
Chlorosulfonic Acid			
Chrome Alum			
Chromic Acid, 10%			
Chromic Acid, 30%			
Chromic Acid, 50%			
Cider	1		
Coconut Oil			
Compressed Air	1	1	
Copper Chloride, Saturated			
Copper Cyanide			
Copper Fluoborate			
Copper Nitrate, 30%			

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Chemical	Temperature (°C)		
	20	40	60
Copper Salts	1	1	1
Copper Sulfate, Saturated			
Cottonseed Oil			
Creosols			
Creosylic Acid			
Cresol, 50%			
Cresol, 90%			
Cyclohexane	1	1	1
Cyclohexanol	1	1	1
Cyclohexanone	1	2	2
Decahydronaphthalene			
Detergent, Water Solution		1	1
Di(Butoxyethyl) Phthalate			
Dibutyl Phthalate	1	2	2
Dibutyl Sebacate	1		
Dichloro Ethane			
Dichlorobenzene	2		
Dichloroethylene			
Diethyl Ether			
Diglycolic Acid, Saturated	1	1	1
Diisobutyl Ketone	1		
Dimethylamine			
Dimethylformamide	1		2
Dinonyl Phthalate	2		

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Chemical	Temperature (°C)		
	20	40	60
Diethyl Phthalate	2		
Dioxane	1	1	1
Ethers			
Ethyl Acetate	1	2	2
Ethyl Alcohol	1	1	1
Ethyl Benzene			
Ethyl Ether			
Ethylene Chloride	2		
Ethylene Chlorohydrin			
Ethylene Diamine	1	1	1
Ethylene Glycol, 100%	1	1	1
Ethylene Glycol, 50%			
Ethylene Oxide			
Fatty Acids			
Fatty Alcohol Sulfamate	1	1	1
Ferric Chloride			
Ferric Chloride, Saturated			
Ferric Nitrate, Saturated			
Ferric Sulfate			
Ferrous Chloride, Saturated			
Ferrous Sulfate			
Fluorine Gas, Dry 100%			
Fluosilicic Acid, 30%			
Formaldehyde			

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Chemical	Temperature (°C)		
	20	40	60
Formamide	1	1	1
Freon 12, 100%			
Fruit Juice, Pure	1	1	1
Furfuryl Alcohol	1	1	1
Gasoline	1	1	1
Gelatin	1	1	1
Glucose			
Glycerine	1	1	1
Glycine, Aqueous			
Glycolic Acid, Saturated	1	1	1
Heptane	1		2
N-Hexane	1		2
Hydrazine Hydrate	1	1	1
Hydrobromic Acid, 50%	1	1	1
Hydrobromic Acid, 10%	1	1	1
Hydrobromic Acid, 25%			
Hydrobromic Acid, 36%	1	1	1
Hydrobromic Acid, 37%			
Hydrocyanic Acid	1	1	1
Hydrofluoric Acid, 10%			
Hydrofluoric Acid, 60%			
Hydrogen Peroxide, 30%	1	1	1
Hydrogen Sulfide, Dry			
Hydroxylamine Sulfate	1	1	1

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Chemical	Temperature (°C)		
	20	40	60
Iodine	1		2
Isobutane			
Isooctane	1		2
Isopropyl Acetate	1	1	1
Isopropyl Alcohol			
Isopropyl Ether	2		
Lactic Acid, 10%	1	1	1
Lanolin	1	1	1
Lead Acetate, Saturated	1	1	1
Linseed Oil	1	1	1
Liqueurs	1	1	
Magnesium Carbonate			
Magnesium Chloride, Saturated			
Magnesium Hydroxide	1	1	1
Magnesium Nitrate			
Magnesium Salts	1	1	1
Malic Acid			
Mercuric Chloride, Saturated			
Mercuric Cyanide, Saturated			
Mercurous Nitrate, Saturated			
Mercury	1	1	1
Mercury Salts	1	1	1
Methane	1		
Methyl Acetate	1		

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Chemical	Temperature (°C)		
	20	40	60
Methyl Alcohol			
Methyl Amine	1		
Methyl Bromide	2		
Methylene Chloride	2		
Methylsulfuric Acid			
Milk			
Molasses	1	1	1
Morpholine	1	1	1
Naphtha			
Naphthalene	1		2
Nickel Chloride, Saturated			
Nickel Nitrate			
Nickel Sulfate, Saturated			
Nitric Acid, 100%			
Nitric Acid, 40%			
Nitric Acid, 60%			
Nitric Acid, 65%	2		
Nitrobenzene			
Oleic Acid	1	1	2
Oleum			
Olive Oil	1	1	2
Oxygen Gas			
Ozone	2		
Palmitic Acid	2		

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Chemical	Temperature (°C)		
	20	40	60
Palmitic Acid, 10%			
Palmitic Acid, 70%			
Paraffin			
Paraffin Emulsion	1	1	2
Perchloric Acid, 10%	1	1	1
Perchloric Acid, 70%	1	1	1
Perchloroethylene	2		
Petroleum	1	1	2
Phenol, 90%	1	1	2
Phenyl Hydrazine	2		
Phosgene Gas	2		
Phosgene Liquid			
Phosphoric Acid, 25%			
Phosphoric Acid, 30%	1	1	1
Phosphoric Acid, 50%	1	1	1
Phosphoric Acid, 85%	1	1	2
Phosphorous Pentoxide	1	1	
Phosphorous Trichloride			
Phosphorous Oxychloride	1		2
Phosphorous Pentachloride	1		2
Potassium Bicarbonate	1	1	1
Potassium Borate	1	1	1
Potassium Bromate	1	1	2
Potassium Bromide	1	1	1

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Chemical	Temperature (°C)		
	20	40	60
Potassium Carbonate			
Potassium Chlorate	1	1	1
Potassium Chloride	1	1	1
Potassium Chromate	1		
Potassium Cyanide	1	1	1
Potassium Ferricyanide			
Potassium Fluoride			
Potassium Iodide	1	1	1
Potassium Nitrate	1	1	1
Potassium Perborate			
Potassium Permanganate, Saturated	1	1	2
Potassium Permanganate, 10%			
Potassium Persulfate	1	1	1
Propane	1		
1-Propanol	1	1	1
Propargyl Alcohol	1	1	1
Propionic Acid, 50%	1	1	1
Propyl Alcohol			
Propylene Oxide	2		
Pyridine			
Sea Water			
Silicic Acid			
Silicone Oil	1	1	1
Silver Cyanide			

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Chemical	Temperature (°C)		
	20	40	60
Silver Nitrate			
Soaps	1	1	1
Sodium Acetate, Saturated	1	1	1
Sodium Benzoate	1	1	1
Sodium Bicarbonate	1	1	1
Sodium Bichromate, Saturated			
Sodium Bisulfate	1	1	1
Sodium Bisulfite	1	1	1
Sodium Bromide, Saturated			
Sodium Chlorate, Saturated			
Sodium Chloride	1		
Sodium Chromate	1		
Sodium Ferrocyanide, Saturated			
Sodium Fluoride	1		
Sodium Hypochlorite			
Sodium Iodide	1		
Sodium Nitrate, Saturated	1	1	1
Sodium Nitrite, Saturated	1		
Sodium Oxalate	1		
Sodium Perborate			
Sodium Phosphate	1	1	1
Sodium Sulfate, Saturated	1	1	1
Sodium Sulfide	1	1	1
Sodium Sulfite	1	1	1

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Chemical	Temperature (°C)		
	20	40	60
Sodium Thiosulfate	1	1	1
Stannous Chloride, 15%	1	1	1
Stearic Acid, 100%	1		2
Sugar Syrup	1	1	1
Sulfur Dioxide Gas, Dry			
Sulfur Dioxide Gas, Wet			
Sulfur Dioxide Liquified			
Sulfuric Acid, 51% to 60%	1	1	1
Sulfuric Acid, 71% to 80%	1	1	2
Sulfuric Acid, 96%			
Sulfuric Acid, 97%			
Sulfurous Acid	1	1	1
Tannic Acid	1	1	1
Tartaric Acid	1	1	1
Tetrachloroethane	2		
Tetraethyl Lead			
Tetrahydrofuran			
Thionyl Chloride			
Toluene	2		
Transformer Oil			
Tributyl Phosphate	1	1	1
Trichloroacetic Acid	1	1	1
Trichloroacetic Acid, 50%	1	1	1
Trichloroethylene			

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Chemical	Temperature (°C)		
	20	40	60
Tricresyl Phosphate	1	1	1
Triethanolamine	1	1	1
Triethylamine			
Trioctyl Phosphate	2		
Turpentine	2	2	2
Urea	1	1	1
Urea, 30%			
Uric Acid			
Urine	1	1	1
Vaseline			
Vegetable Oil	1	2	
Vinegar	1	1	1
Vinyl Acetate			
Vinyl Chloride			
Water, Deionised	1	1	1
Whiskey			
Wines			
Xylene			
Yeast	1	1	1
Zinc Chloride			
Zinc Nitrate			
Zinc Salts	1	1	1
Zinc Sulfate			

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IMPORTANT: The technical data given on this chart is for preliminary information purposes only and is published without guarantee.

The absence of a class indication signifies the absence of data for this particular material with respect to the specific chemical, temperature and concentration.