

## Chemical Resistance of Milam Laminates – 2018

Resistance	B = conditionally resistant	
	A = resistant	U = not resistant
Compatibility of media with	Milam H	Milam PSS
Acetaldehyde	B	B
Acetamide	B	B
Acetamide	A	A
Acetic acid	A	A
Acetic acid amylester	A	A
Acetic acid anhydride	A	A
Acetic acid butylester	A	A
Acetone	B	B
Acetylene	B	B
Acrylic acid	A	A
Acrylic acid esters	A	A
Acrylonitril	A	A
Adipic acid	A	A
Air (< 400 °C)	A	A
Aluminum acetate	A	A
Aluminum chlorate	A	A
Aluminum chloride	A	U
Aluminum fluoride	A	U
Aluminum sulfate	A	B
Amino acids	A	B
Ammonium bifluoride	A	B
Ammonia (anhydrous)	A	A
Ammonia (gaseous)	A	A
Ammonium bifluoride	A	B
Ammonium bisulfate	A	A
Ammonium carbonate	A	A
Ammonium chloride	A	B
Ammonium dihydrogen phosphate	A	A
Ammonium hydroxide	A	A
Ammonium nitrate	A	B
Ammonium persulfate	A	U
Ammonium phosphate	A	A
Ammonium sulfate	A	A
Ammonium thiocyanate	A	A
Amyl acetate	A	A
Aniline	A	A
Aniline hydrochloride	A	U
Aqua regia	U	U
Arsenic acid	A	B
Arsenic trichloride	A	U
Barium chloride	A	A
Beer	A	A

Resistance	A = resistant	B = conditionally resistant	U = not resistant
Compatibility of media with	Milam H		Milam PSS
Benzaldehyde	A		A
Benzene	B		B
Benzenesulfonic acid	A		U
Benzoic acid	A		A
Benzyl chloride	A		A
Boric acid	A		A
Bromic acid	B		U
Bromine (dry)	A		A
Bromine (wet)	B		U
Bromine trifluoride	U		U
Butadiene	B		B
Butane	A		A
Butanol	B		B
Butyl acetate	B		B
Butyl amine	B		B
Butyl cellosolve	A		A
Butyl phenol	A		A
Butyric acid	A		A
Calcium carbonate	A		A
Calcium chloride	A		B
Calcium hydroxide	A		A
Calcium hypochlorite	A		U
Calcium oxide	A		A
Calcium sulfate	A		A
Carbolineum	A		A
Carbon dioxide	A		A
Carbon disulfide	A		A
Carbon monoxide	A		A
Carbon tetrachloride	B		B
Chloral hydrate	A		A
Chlorine (dry)	B		B
Chlorine (wet)	B		U
Chlorine dioxide	B		B
Chlorine trifluoride	U		U
Chloro ethyl benzene	A		A
Chloroacetic acid	A		U
Chlorobenzene	A		A
Chloroform	B		B
Chloropropionic acid	A		A
Chromic acid	B		B
Chromium trioxide (aqueous)	B		B
Chromosulfuric acid	B		U
Citric acid	A		A
Copper acetate	A		A
Copper chloride	A		A
Copper sulfate	A		A

Resistance	A = resistant	B = conditionally resistant	U = not resistant
Compatibility of media with	Milam H	Milam PSS	
Cresol	A	A	
Cyclohexane	A	A	
Cyclohexanol	A	A	
Cyclohexanone	B	B	
Decaline	A	A	
Dibenzylether	B	B	
Dibutyl phthalate	A	A	
Dichlorobenzene	A	A	
Dichloromethane	B	B	
Diethanolamine	B	B	
Diethyl ether	B	B	
Diethylamine	B	B	
Dimethyl formamide	B	B	
Dimethyl sulfoxide	B	B	
Dioxane	A	A	
Diphenyl ether	B	B	
Disulfur dichloride	A	A	
Dowtherm (all types)	A	A	
Epichlorohydrin	A	A	
Ethane	A	A	
Ethanol	B	B	
Ethanolamine	A	A	
Ethyl acetate	B	B	
Ethyl amine	B	B	
Ethyl butyl ester	B	B	
Ethyl chloride	B	B	
Ethyl mercaptane	B	B	
Ethylenchlorohydrin	B	B	
Ethylenediamine	B	B	
Ethylenedibromide	B	B	
Ethylenedichloride	B	B	
Ethylene	B	B	
Ethylene glycol	A	A	
Ethylene oxide	B	B	
Fatty acids	A	A	
Fatty alcohols	B	B	
Fluorine	U	U	
Fluorobenzene	A	A	
Folic acid	A	A	
Formaldehyde	B	B	
Formamide	A	A	
Formic acid	A	B	
Furfural	B	B	

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Compatibility of media with	Milam H	Milam PSS
Gasoline	A	A
Glycerine	A	A
Glycols	A	A
Heat transfer oil	A	A
Heating oil	B	B
Heptane	A	A
Hexachloro benzene	A	A
Hydraulic oils	A	A
Hydrazine	B	B
Hydrochloric acid	B	U
Hydrofluoric acid	B	U
Hydrogen bromide	A	U
Hydrogen cyanide	A	A
Hydrogen peroxide	A	B
Hydrogen sulfide (aqueous)	A	A
Iodine	A	B
Iron(II) chloride	B	U
Iron(II) sulfate	A	A
Iron(III) chloride	A	U
Iron(III) sulfate	A	A
Isooctane	A	A
Isopropyl acetate	A	A
Isopropyl alcohol	B	B
Isopropyl ether	B	B
Lactic acid	A	B
Lauryl alcohol	A	A
Lead acetate	A	A
Linseed oil	A	A
Magnesium carbonate	A	A
Magnesium chloride	A	U
Magnesium hydroxide	A	A
Magnesium nitrate	A	A
Magnesium sulfate	A	A
Maleic acid	A	A
Maleic acid anhydride	A	A
Manganese carbonate	A	A
Manganese chloride	A	B
Manganese sulfate	A	A
Mannitol	A	A
Mercaptanes	A	A
Mercuric chloride	A	U
Mercury	A	A
Methane	B	B

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Compatibility of media with			
	Milam H		Milam PSS
Methanol	B		B
Methyl chloride	B		B
Methyl ethyl ether	B		B
Methyl ethyl ketone (MEK)	B		B
Methyl isobutyl ketone (MIBK)	B		B
Mineral oil	A		A
Morpholine	A		A
Motor oil	A		A
Nickel chloride	A		A
Nickel sulfate	A		B
Nitric acid	B		B
Nitrobenzene	A		A
Nitrogen	A		A
Nitrosulphuric acid	U		U
Nitrous acid	A		B
Octane	A		A
Octanol	A		A
Oleic acid	A		A
Oxalic acid	A		B
Oxygen (< 300 °C)	A		A
Palmitic acid	A		A
Paraffin oil	A		A
Paraldehyde	A		A
Pentane	A		A
Pentanol	A		A
Perchloric acid	U		U
Petroleum	A		A
Petroleum ether	B		B
Phenol	A		A
Phenyl acetic acid	A		A
Phosgene	A		A
Phosphoric acid	A		B
Phosphorous trichloride	A		B
Phthalic acid	A		A
Picric Acid	B		U
Potassium (< 350 °C)	A		A
Potassium acetate	A		A
Potassium bromide	A		A
Potassium carbonate	A		A
Potassium chlorate	A		B
Potassium chloride	A		U
Potassium chromate	A		B
Potassium cyanide	A		A
Potassium hydrogensulfate	A		A

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Compatibility of media with	Milam H	Milam PSS
Potassium hydroxide	A	A
Potassium hypochlorite	A	U
Potassium iodide	A	A
Potassium nitrate (melt)	A	B
Potassium permanganate	A	B
Potassium silicate	A	A
Potassium sulfate	A	A
Propane	A	A
Propene	A	A
Pyridine	B	B
Sea water	A	B
Silicones	A	A
Siloxanes	A	A
Silver nitrate	A	A
Soap	A	A
Sodium bicarbonate	A	A
Sodium bisulfate	A	A
Sodium borate (aqueous)	A	A
Sodium bromide	A	A
Sodium carbonate	A	A
Sodium chloride	A	A
Sodium hydroxide	A	B
Sodium hypochlorite	A	U
Sodium nitrate	A	A
Sodium peroxide	A	B
Sodium phosphate	A	A
Sodium silicate	A	A
Sodium sulfate	A	A
Sodium sulfide	A	A
Soy bean oil	A	A
Stannic chloride	A	B
Starch solution	A	A
Stearic acid	A	A
Styrene	A	A
Sulfonic acids	A	A
Sulfur (molten)	A	A
Sulfur chloride	A	A
Sulfur dioxide	A	B
Sulfur hexafluoride	A	A
Sulfur trioxide	B	B
Sulfuric acid < 70 %	B	U
Sulfuric acid > 70%	U	U
Sulfuric acid fuming	U	U
Sulfurous acid	A	A
Tannin	A	A

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Compatibility of media with	Milam H	Milam PSS	
Tartaric acid	A	A	
Tetrachlorethylene	B	B	
Tetrachloroethane	B	B	
Tetralin	A	A	
Thionylchloride	A	B	
Toluene	A	A	
Tricalcium phosphate	A	A	
Trichloro acetic acid	A	U	
Trichloroethylene	B	B	
Triethanolamine	A	A	
Urea	A	A	
Vapour	A	A	
Vinyl acetate	A	A	
Wine vinegar	A	A	
Xylene	A	A	
Zinc chloride	A	B	
Zinc sulfate	A	A	

The data of the chemical resistance are based on experiments, experience and arguments by analogy. The data should provide a general indication without any warranty claim. We reserve the right to product changes which serve the purpose of technical progress.