

# **Hertalan EPDM Sheetting**

## **Chemical Resistance**

## Introduction

Hertalan EPDM sheeting has, besides being fully resistant against UV radiation, a good chemical resistance.

In general Hertalan EPDM sheeting will resist:

- **animal and vegetable oils;**
- **ozone;**
- **oxidizing chemicals.**

and will be attacked by:

- **mineral oils and organic solvents;**
- **aromatic hydrocarbons.**

Besides the type of chemical, of great importance when exposed are the following data:

- **the time the chemical is in contact with the sheeting;**
- **the pressure;**
- **the temperature;**
- **the concentration of the chemical.**

The following pages list a great number of chemicals. For each chemical the Hertalan EPDM resistance is indicated. These indications are based on room-temperature unless another temperature is mentioned.

**Please note that this list is only applicable for Hertalan EPDM sheeting and prefabricated membranes. Hertalan adhesives are not included in this list.**

Should the chemical you are looking for not be in this list or should you want information on the adhesives please do not hesitate to contact us.

Hertalan EPDM sheeting is just one of the types of elastomeric sheeting we manufacture. Should Hertalan EPDM sheeting not be suitable for your specific application then please contact us as we probably will be able to advise you in the use of one of our other types of sheeting.

**+ = Resistant**

**0 = Moderately resistant**

**- = Non-resistant**

<u>Resistance</u>	<u>Chemical</u>	<u>Resistance</u>	<u>Chemical</u>
	<b>A</b>		
		+	Amylacetate
		+	Amylalcohol
0	Acetaldehyde	-	Amylchloride
+	Acetic acid 10-25%	+	Aniline
0	Acetic acid 25-100%	+	Animal oil
+	Acetic anhydride	+	Antimony chloride
0	Acetic acid glacial	+	Antimony pentasulphide
0	Acetylacetone	+	Antimony trisulphide
+	Acetone	-	Asphalt
+	Acetonitrile	-	A.S.T.M. reference fuel A-B-C
-	Acetylene	-	A.S.T.M. oil 1-2-3
+	Acrylic acid	-	Aqua regia
0	Acrylonitrile	+	Argon
0	Acrolein	+	Arsenic acid
+	Adipinic acid	+	Arsenic tri-oxide
+	Aluminium acetate	+	Arsenic tri-sulfide
+	Aluminium chlorate		
+	Aluminium chloride		
+	Aluminium fluoride		<b>B</b>
+	Aluminium hydroxide	+	Barium chloride
+	Aluminium nitrate	+	Barium hydroxide
+	Aluminium oxide hydrate	+	Barium oxide
+	Aluminium phosphate	+	Barium peroxide
+	Aluminium sulphate	+	Barium sulfate
-	Allylchloride	+	Barium sulfide
+	Ammonia anhydrous	+	Beer
+	Ammonium carbonate	-	Benzylchloride
+	Ammonium chloride	+	Benzaldehyde
+	Ammonium fluoride	-	Benzene
+	Ammonium hydroxide	+	Benzene sulfonic acid (<10 %)
+	Ammonium nitrate	+	Benzoic acid
+	Ammonium orthophosphate	-	Benzoylchlorid
+	Ammonium oxalate	0	Benzylalcohol
+	Ammonium sulfate	+	Benzyl benzoate
+	Ammonium thiocyanate	+	Bismuth carbonate

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<u>Resistance</u>	<u>Chemical</u>	<u>Resistance</u>	<u>Chemical</u>
+	Bisulphite solution	+	Calciumsulfide
+	Bitumen	+	Calcium(bi)sulfide
+	Borax solution	+	Calciumoxide
+	Boric acid	+	Caproic acid
+	Bromic acid	+	Caprolactam (20-100%)
-	Bromine anhydrous liquid	+	Carbamide
-	Bromo benzene	+	Carbitol
-	Butadiene	0	Carbolic oil
-	Butane	+	Carbondioxide
+	Butanol	-	Carbondisulfide
+	Butanon (M.E.K.)	+	Carbonmonoxide
0	Buttermilk	-	Carbontetrachloride
-	Butylstearate	0	Castor oil
0	Butylacetate	+	Cellulose acetate
+	Butylalcohol	+	Cement
0	Butylaldehyde	+	Chlorine dry
-	Butylamine	0	Chlorine wet
+	Butylbenzoat	+	Chlorine dioxide
-	Butylchloride	-	Chlorine water
-	Butylene	+	Chloroacetic acid
-	Butylether	-	Chlorobenzene
+	Butylglycol	-	Chlorodiphenyl
-	Butyloleate	-	Chloroform
0	Butyric acid	-	Chlorophenol
0	Butyraldehyde	-	Chloroprene
		-	Chlorosulfonic acid
		-	Chromic acid
		+	Chromium sulfate
		+	Chromium trioxide
		+	Citric acid
		+	Copper chloride
		+	Copper cyanide
		+	Copper hydroxide
		+	Copper nitrate
		+	Copper sulfate

## **C**

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<u>Resistance</u>	<u>Chemical</u>	<u>Resistance</u>	<u>Chemical</u>
+	Cottonseed oil (20 °C)	-	Diphenyl
0	Cottonseed oil (100 °C)	-	Diphenylether
+	Cream butter	+	Dipropylene glycol
-	Creosote oil	-	Diphenyloxide
0	Cresol	-	Dowtherm A
+	Cyanic acid		
-	Cyclohexane		<b>E</b>
-	Cyclohexene		
-	Cyclohexanol	0	Epichlorohydrin
-	Cyclohexanone	-	Ethane
		+	Ethanolamine
		+	Ethylacetate
		+	Ethylacrylate
		+	Ethylalcohol
-	Decalin	-	Ethylbenzene
+	Dextrose	0	Ethylchloride
+	Diacetone alcohol	-	Ethylene
+	Dibenzylether	-	Ethylenebromide
+	Dibutylphthalate	0	Ethylene diamine
-	Dichlorobenzene	-	Ethylene dichloride
-	Dichloroethylene	+	Ethylene glycol
0	Dichloromethane	+	Ethylene glycoldiacetate
-	Diesel oil	-	Ethylether
+	Diethanolamine	+	Ethyl hexanol
-	Diethylamine	-	Ethyl mercaptan
+	Diethylene glycol	+	Ethylene oxide
-	Diethylether		
+	Diethylketon		
0	Diethylsebacate		
-	Dimethylamine		
+	Dimethylaniline		
-	Dimethylether		<b>F</b>
0	Dimethylformamide	0	Fatty acids
+	Di-n-butylsebacate	+	Fatty alcohols
0	Diocylphthalate	+	Ferric chloride
+	Dioxane	+	Fluoboric acid <65%



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<u>Resistance</u>	<u>Chemical</u>	<u>Resistance</u>	<u>Chemical</u>
+	Magnesium sulfate	+	Nitropropane
+	Magnesium sulfite	-	Nitrotoluene
+	Maleic acid		
+	Mercury		<b>O</b>
+	Mercury chloride		
+	Mercury nitrate	-	Octane
+	Methaldehyde	0	Octanol
-	Methane	0	Oleic acid
+	Methanol	-	Oleum
+	Methylacetate	0	Olive oil
+	Methylalcohol	+	Oxalic acid
-	Methylamine	+	Oxygen
-	Methylchloride	+	Ozone
0	Methylene chloride		
+	Methyl ethyl keton		<b>P</b>
+	Methyl glycol		
+	Methyl glycol acetate	0	Palmitic acid
0	Methyl-isobutylketone	0	Palm oil
-	Mineral oil	0	Paraffine oil and wax
-	Mixed nitric and sulphuric acid	-	Pentane
+	Molasses	0	Perchloric acid
-	Monochloro ethylene	-	Perchloro ethylene
+	Mono ethanol amine	+	Perhydrol
		-	Petroleum
		-	Phenol
		-	Phenylchloride
-	Naphtha	+	Phosphoric acid
-	Naphtalene	+	Phosphorus oxychloride
+	Nickelsulphate	+	Phtalic acid
0	Nitric acid <10%	+	Phtalic acid anhydride
-	Nitric acid >10%	0	Picric acid
-	Nitric acid red fuming	+	Potassium acetate
0	Nitrobenzene	+	Potassium alum. sulphate
+	Nitrogen	+	Potassium borate
+	Nitrogenoxide	+	Potassium bromide

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<u>Resistance</u>	<u>Chemical</u>	<u>Resistance</u>	<u>Chemical</u>
+	Potassium carbonate	+	Silicone oil
+	Potassium chlorate	+	Skydrol
+	Potassium chloride	+	Soap solution
+	Potassium chromium sulfate	+	Sodium acetate
+	Potassium cyanide	+	Sodium borate
+	Potassium dichromate	+	Sodium (bi) carbonate
+	Potassium hydroxide	+	Sodium chlorate
+	Potassium hypochlorite	+	Sodium chloride
+	Potassium Iodide	+	Sodium cyanide
+	Potassium nitrate	+	Sodium dichromate
-	Potassium permanganate	+	Sodium fluoride
+	Potassium phosphate	+	Sodium fluo aluminate
+	Potassium sulfate	+	Sodium hydroxide (20-75%)
+	Potassium sulfite	+	Sodium hypochlorite (10-30%)
-	Propane (liquid and gas)	+	Sodium iron cyanide
+	Propanol	+	Sodium meta phosphate
+	Propyl acetate	+	Sodium nitrate
-	Propyl amine	+	Sodium nitrite
-	Propylene	+	Sodium peroxide
-	Propylene chloride	+	Sodium orthophosphate
+	Propylene glycol	+	Sodium silicate
+	Propylene oxide	+	Sodium (bi) sulfate
0	Pyridine	+	Sodium sulfide
		+	Sodium (bi) sulfite
		+	Sodium thiosulphate
		-	Soybean oil
		+	Sorbic acid
+	Rapeseed oil	+	Starch (amylodextrin)
		0	Stearic acid
		-	Styrene
		+	Sugar
+	Salad Oil	+	Sulfamic acid
+	Salicylic acid	+	Sulfur (90 °C)
+	Seawater	-	Sulfur dichloride
+	Silicic acid	+	Sulfur dioxide (wet and dry)

## **R**

## **S**

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<u>Resistance</u>	<u>Chemical</u>	<u>Resistance</u>	<u>Chemical</u>
+	Sulfuric acid (dilute)		<b>X</b>
0	Sulfuric acid (concentrate)		
-	Sulfur acid (fuming)	-	Xylol (Xylene)
-	Sulfurous acid (10-75%)		
0	Sulfur trioxide		<b>Z</b>
	<b>T</b>		
+	Tannic acid	+	Zinc acetate
0	Tartaric acid	+	Zinc dichloride
-	Tetra chloro ethylene	+	Zinc sulfate
-	Tetra hydro furan		
-	Tetra hydro naphtalin		
-	Toluene		
0	Tributyl phosphate		
-	Trichloroethane		
0	Tricresyl phosphate		
+	Tri ethanol amine		
-	Tri ethyl amine		
-	Tri methyl amine		
+	Tri sodium phosphate		
-	Turpentine		
	<b>V</b>		
+	Vegetable oil and fat		
+	Vinyl acetate		
-	Vinyl chloride		
-	Vinyl pyridine		
	<b>W</b>		
+	Washing preparation (synth.)		
+	Water		
+	Wine		