Flachdach

Flachdach EPDM

Chemical resistance

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Introduction

Flachdach EPDM sheeting has, besides being fully resistant against UV radiation, a good chemical resistance.
In general Flachdach 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 Flachdach 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 Flachdach EPDM sheeting and prefabricated membranes. Flachdach 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.

Flachdach EPDM sheeting is just one of the types of elastomeric sheeting we manufacture. Should Flachdach EPDM sheeting notbe 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.

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+ = Resistant **0 = Moderately resistant** **- = Non-resistant**

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

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Resistance	Chemical
+	Bismuth carbonate
+	Bisulphite solution
+	Bitumen
+	Borax solution
+	Boric acid
+	Bromic acid
-	Bromine anhydrous liquid
-	Bromo benzene
-	Butadiene
-	Butane
+	Butanol
+	Butanon (M.E.K.)
0	Buttermilk
-	Butylstearate
0	Butylacetate
+	Butylalcohol
0	Butylaldehyde
-	Butylamine
+	Butylbenzoat
-	Butylchloride
-	Butylene
-	Butylether
+	Butylglycol
-	Butyloleate
0	Butyric acid
0	Butyraldehyde

C

Resistance	Chemical
+	Cadmium
+	Cadmium sulfate
+	Calciumcarbonate
+	Calciumchloride
+	Calciumcyanide
+	Calciumhydroxide
+	Calciumsulfate
+	Calciumsulfide
+	Calcium(bi)sulfide
+	Calciumoxide
+	Caproic acid
+	Caprolactam (20-100%)
+	Carbamide
+	Carbitol
0	Carbolic oil
+	Carbondioxide
-	Carbondisulfide
+	Carbonmonoxide
-	Carbontetrachloride
0	Castor oil
+	Cellulose acetate
+	Cement
+	Chlorine dry
0	Chlorine wet
+	Chlorine dioxide
-	Chlorine water
+	Chloroacetic acid
-	Chlorobenzene
-	Chlorodiphenyl
-	Chloroform
-	Chlorophenol
-	Chloroprene
-	Chlorosulfonic acid
-	Chromic acid
+	Chromium sulfate
+	Chromium trioxide
+	Citric acid
+	Copper chloride
+	Copper cyanide

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Resistance	Chemical
+	Copper hydroxide
+	Copper nitrate
+	Copper sulfate
+	Cottonseed oil (20 °C)
0	Cottonseed oil (100 °C)
+	Cream butter
-	Creosote oil
0	Cresol
+	Cyanic acid
-	Cyclohexane
-	Cyclohexene
-	Cyclohexanol
-	Cyclohexanone

D

-	Decalin
+	Dextrose
+	Diacetone alcohol
+	Dibenzylether
+	Dibutylphthalate
-	Dichlorobenzene
-	Dichloroethylene
0	Dichloromethane
-	Diesel oil
+	Diethanolamine
-	Diethylamine
+	Diethylene glycol
-	Diethylether
+	Diethylketon
0	Diethylsebacate
-	Dimethylamine
+	Dimethylaniline
-	Dimethylether
0	Dimethylformamide
+	Di-n-butylsebacate
0	Dioctylphthalate
+	Dioxane
-	Diphenyl
-	Diphenylether
+	Dipropylene glycol
-	Diphenyloxide
-	Dowtherm A

E

0	Epichlorohydrin
-	Ethane
+	Ethanolamine
+	Ethylacetate
+	Ethylacrylate
+	Ethylalcohol
-	Ethylbenzene
0	Ethylchloride
-	Ethylene
-	Ethylenebromide
0	Ethylene diamine
-	Ethylene dichloride
+	Ethylene glycol
+	Ethylene glycoldiacetate
-	Ethylether
+	Ethyl hexanol
-	Ethyl mercaptan
+	Ethylene oxide

F

0	Fatty acids
+	Fatty alcohols
+	Ferric chloride

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Resistance	Chemical
+	Fluoboric acid <65%
+	Fluosilicic acid <50%
+	Formaldehyde
+	Formaline
+	Formic acid (<50%)
-	Freon
+	Furfural
	G
0	Gallic acid
-	Gasoline
+	Gelatin
+	Glucose
+	Glutamic acid
+	Glycerol (glycerin)
0	Glycerol monostearate
+	Glycol
	H
+	Helium
-	Heptane
0	Hexaldehyde
-	Hexane
0	Hexanol
0	Hexylamine
-	Hexylchloride
+	Hydrazine
+	Hydrazine hydrate
+	Hydrobromic acid
+	Hydrochloric acid
+	Hydrocyanic acid
-	Hydrofluoric acid
+	Hydrogen
+	Hydrogen peroxide <30%
0	Hydrogen peroxide >30%
+	Hydrogen sulfide (dry and wet)
	I
0	Iodine
+	Iron chloride
+	Iron sulfate
+	Iso butyl methylketon
-	Iso octane
+	Isopropyl acetate +Isopropyl alcohol
-	Isopropylether
	K
-	Kerosene
	L
+	Lactic acid (milk acid)
0	Lanolin
0	Lauryl alcohol
+	Lead acetate
+	Lead arsenate
+	Lead sulfate
0	Linseed oil
-	Lubrication oil
	M
+	Magnesium chloride
+	Magnesium hydroxide
+	Magnesium silicate

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Resistance	Chemical
+	Magnesium silico fluoride
+	Magnesium sulfate
+	Magnesium sulfite
+	Maleic acid
+	Mercury
+	Mercury chloride
+	Mercury nitrate
+	Methaldehyde
-	Methane
+	Methanol
+	Methylacetate
+	Methylalcohol
-	Methylamine
-	Methylchloride
0	Methylene chloride
+	Methyl ethyl keton
+	Methyl glycol
+	Methyl glycol acetate
0	Methyl-isobutylketone
-	Mineral oil
-	Mixed nitric and sulphuric acid
+	Molasses
-	Monochloro ethylene
+	Mono ethanol amine

N

-	Naphtha
-	Naphtalene
+	Nickelsulphate
0	Nitric acid <10%
-	Nitric acid >10%
-	Nitric acid red fuming
0	Nitrobenzene
+	Nitrogen
+	Nitrogenoxide
+	Nitropropane
-	Nitrotoluene

O

-	Octane
0	Octanol
0	Oleic acid
-	Oleum
0	Olive oil
+	Oxalic acid
+	Oxygen
+	Ozone

P

0	Palmitic acid
0	Palm oil
0	Paraffine oil and wax
-	Pentane
0	Perchloric acid
-	Perchloro ethylene
+	Perhydrol
-	Petroleum
-	Phenol
-	Phenylchloride
+	Phosphoric acid
+	Phosphorus oxychloride
+	Phtalic acid
+	Phtalic acid anhydride
0	Picric acid
+	Potassium acetate

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Resistance	Chemical
+	Potassium alum. sulphate
+	Potassium borate
+	Potassium bromide
+	Potassium carbonate
+	Potassium chlorate
+	Potassium chloride
+	Potassium chromium sulfate
+	Potassium cyanide
+	Potassium dichromate
+	Potassium hydroxide
+	Potassium hypochlorite
+	Potassium Iodide +Potassium nitrate
-	Potassium permanganate
+	Potassium phosphate
+	Potassium sulfate
+	Potassium sulfite
-	Propane (liquid and gas)
+	Propanol
+	Propyl acetate
-	Propyl amine
-	Propylene
-	Propylene chloride
+	Propylene glycol
+	Propylene oxide
0	Pyridine
	R
+	Rapeseed oil
	S
+	Salad Oil
+	Salicilic acid
+	Seawater
+	Silicic acid
+	Silicone oil
+	Skydrol
+	Soap solution
+	Sodium acetate
+	Sodium borate
+	Sodium (bi) carbonate
+	Sodium chlorate
+	Sodium chloride
+	Sodium cyanide
+	Sodium dichromate
+	Sodium fluoride
+	Sodium fluo aluminate
+	Sodium hydroxide (20-75%)
+	Sodium hypochlorite (10-30%)
+	Sodium iron cyanide
+	Sodium meta phosphate
+	Sodium nitrate
+	Sodium nitrite
+	Sodium peroxide
+	Sodium orthophosphate
+	Sodium silicate
+	Sodium (bi) sulfate
+	Sodium sulfide
+	Sodium (bi) sulfite
+	Sodium thiosulphate
-	Soybean oil
+	Sorbic acid
+	Starch (amylodextrin)
0	Stearic acid
-	Styrene
+	Sugar
+	Sulfamic acid

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Resistance	Chemical
+	Sulfur (90 °C)
-	Sulfur dichloride
+	Sulfur dioxide (wet and dry)
+	Sulfuric acid (dilute)
0	Sulfuric acid (concentrate)
-	Sulfur acid (fuming)
-	Sulfurous acid (10-75%)
0	Sulfur trioxide

T

+	Tannic acid
0	Tartaric acid
-	Tetra chloro ethylene
-	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

V

+	Vegetable oil and fat
+	Vinyl acetate
-	Vinyl chloride
-	Vinyl pyridine

W

+	Washing preparation (synth.)
+	Water
+	Wine

X

-	Xylol (Xylene)

Z

+	Zinc acetate
+	Zinc dichloride
+	Zinc sulfate

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