

**PAFLON-GLASS** is a PTFE gasket reinforced with hollow glass microfibers. This efficient sealing system has less deformation under loads at high and low temperatures. Improved wear, friction, and creep resistance of these gaskets are other remarkable characteristics of PAFLON-GLASS. This style has also dimensional stability which improves its electrical insulation properties.



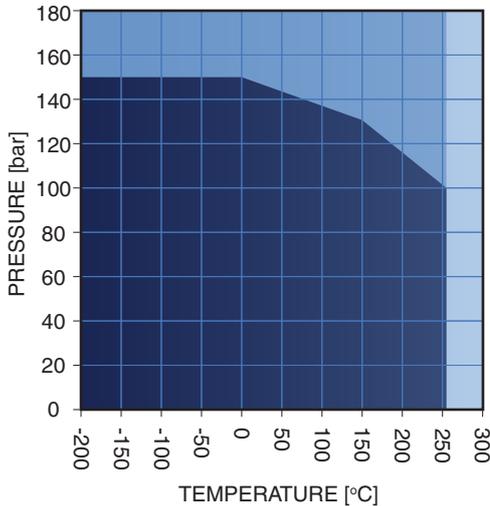
**TECHNICAL DATA:**

TYPICAL VALUES FOR A THICKNESS OF 2.0 MM				
Compressibility	ASTM F 36 J	-	%	20
Recovery	ASTM F 36 J	-	%	35
Stress relaxation	DIN 52913	30 MPa, 16 hours at 150°C	MPa	15
Cold/Hot compression	25 MPa	Thickness decrease at 23°C	%	10
		Thickness decrease at 260°C	%	40
Density	-	-	g/cm <sup>3</sup>	1.5
Temperature (Max.)	-	-	°C (°F)	+260 (+500)
Temperature (Min.)	-	-	°C (°F)	-200 (-320)
Pressure (Max.)	-	-	bar (psi)	180 (2600)

## APPLICATIONS:

Insulators in electrical, electronics and laser equipment, potable water purification, food and medical industry, Pump and instrument construction, roller coverings.

## P-T DIAGRAM



■ In the darker shaded region (dark blue) the gasket is generally applicable for different chemical substances and is highly able to offer chemical compatibility.

■ In workplaces with the conditions this area, technical assessment of gasket material is recommended.

■ In the light blue region, installation of gasket without technical assessment should not be carried out.

## DIMENSIONS

<b>Size (mm):</b>	1000*1000 mm   1500*1500 mm
<b>Thickness (mm):</b>	0.5, 0.8, 1.0, 1.5, 2.0, 3.0, 4.0, 5.0
<b>Tolerances (mm):</b>	Up to 1.0 mm thickness: $\pm 0.1$ mm Above 1.0 mm thickness: $\pm 10\%$ Length & Width: $\pm 5\%$
<b>Surface finish:</b>	Color: Light Blue

## CHEMICAL RESISTANCE CHART

PAFLON-GLASS		PAFLON-GLASS	
Acetamide	✓	Black liquor	✓
Acetic acid, 10%	✓	Borax	✓
Acetic acid, 100% (Glacial)	✓	Boric acid	✓
Acetone	✓	Butadiene (gas)	✓
Acetonitrile	✓	Butane (gas)	✓
Acetylene (gas)	✓	Butyl alcohol (Butanol)	✓
Acid chlorides	✓	Butyric acid	✓
Acrylic acid	✓	Calcium chloride	✓
Acrylonitrile	✓	Calcium hydroxide	✓
Adipic acid	✓	Carbon dioxide (gas)	✓
Air (gas)	✓	Carbon monoxide (gas)	✓
Alcohols	✓	Cellosolve	✓
Aldehydes	✓	Chlorine (gas)	✓
Alum	✓	Chlorine (in water)	✓
Aluminium acetate	✓	Chlorobenzene	✓
Aluminium chlorate	✓	Chloroform	✓
Aluminium chloride	✓	Chloroprene	✓
Aluminium sulfate	✓	Chlorosilanes	✓
Amines	✓	Chromic acid	✓
Ammonia (gas)	✓	Citric acid	✓
Ammonium bicarbonate	✓	Copper acetate	✓
Ammonium chloride	✓	Copper sulfate	✓
Ammonium hydroxide	✓	Creosote	✓
Amyl acetate	✓	Cresols (Cresylic acid)	✓
Anhydrides	✓	Cyclohexane	✓
Aniline	✓	Cyclohexanol	✓
Anisole	✓	Cyclohexanone	✓
Argon (gas)	✓	Decalin	✓
Asphalt	✓	Dextrin	✓
Barium chloride	✓	Dibenzyl ether	✓
Benzaldehyde	✓	Dibutyl phthalate	✓
Benzene	✓	Dimethylacetamide (DMA)	✓
Benzoic acid	✓	Dimethylformamide (DMF)	✓
Bio-diesel	✓	Dioxane	✓
Bio-ethanol	✓	Diphyl (Dowtherm A)	✓

 Suitable
  Depends on operating conditions
  Unsuitable
  No data or insufficient evidence

## CHEMICAL RESISTANCE CHART

PAFLON-GLASS		PAFLON-GLASS	
Esters	✓	Iron sulfate	✓
Ethane (gas)	✓	Isobutane (gas)	✓
Ethers	✓	Isooctane	✓
Ethyl acetate	✓	Isoprene	✓
Ethyl alcohol (Ethanol)	✓	Isopropyl alcohol (Isopropanol)	✓
Ethyl cellulose	✓	Kerosene	✓
Ethyl chloride (gas)	✓	Ketones	✓
Ethylene (gas)	✓	Lactic acid	✓
Ethylene glycol	✓	Lead acetate	✓
Formaldehyde (Formalin)	✓	Lead arsenate	✓
Formamide	✓	Magnesium sulfate	✓
Formic acid, 10%	✓	Maleic acid	✓
Formic acid, 85%	✓	Malic acid	✓
Formic acid, 100%	✓	Methane (gas)	✓
Freon-12 (R-12)	✓	Methyl alcohol (Methanol)	✓
Freon-134a (R-134a)	✓	Methyl chloride (gas)	✓
Freon-22 (R-22)	✓	Methylene dichloride	✓
Fruit juices	✓	Methyl ethyl ketone (MEK)	✓
Fuel oil	✓	N-Methyl-pyrrolidone (NMP)	✓
Gasoline	✓	Milk	✓
Gelatin	✓	Mineral oil (ASTM no.1)	✓
Glycerine (Glycerol)	✓	Motor oil	✓
Glycols	✓	Naphtha	✓
Helium (gas)	✓	Nitric acid, 10%	✓
Heptane	✓	Nitric acid, 65%	✓
Hydraulic oil (Glycol based)	✓	Nitrobenzene	✓
Hydraulic oil (Mineral type)	✓	Nitrogen (gas)	✓
Hydraulic oil (Phosphate ester based)	✓	Nitrous gases (NOx)	✓
Hydrazine	✓	Octane	✓
Hydrocarbons	✓	Oils (Essential)	✓
Hydrochloric acid, 10%	✓	Oils (Vegetable)	✓
Hydrochloric acid, 37%	✓	Oleic acid	✓
Hydrofluoric acid, 10%	✗	Oleum (Sulfuric acid, fuming)	✓
Hydrofluoric acid, 48%	✗	Oxalic acid	✓
Hydrogen (gas)	✓	Oxygen (gas)	✓



Suitable



Depends on operating conditions



Unsuitable



No data or insufficient evidence

## CHEMICAL RESISTANCE CHART

PAFLON-GLASS		PAFLON-GLASS	
Palmitic acid	✓	Sodium hydroxide	?
Paraffin oil	✓	Sodium hypochlorite (Bleach)	✓
Pentane	✓	Sodium silicate (Water glass)	✓
Perchloroethylene	✓	Sodium sulfate	✓
Petroleum (Crude oil)	✓	Sodium sulfide	✓
Phenol (Carbolic acid)	✓	Starch	✓
Phosphoric acid, 40%	✓	Steam	✓
Phosphoric acid, 85%	✓	Stearic acid	✓
Phthalic acid	✓	Styrene	✓
Potassium acetate	✓	Sugars	✓
Potassium bicarbonate	✓	Sulfur	✓
Potassium carbonate	✓	Sulfur dioxide (gas)	✓
Potassium chloride	✓	Sulfuric acid, 20%	✓
Potassium cyanide	✓	Sulfuric acid, 98%	✓
Potassium dichromate	✓	Sulfuryl chloride	✓
Potassium hydroxide	?	Tar	✓
Potassium iodide	✓	Tartaric acid	✓
Potassium nitrate	✓	Tetrahydrofuran (THF)	✓
Potassium permanganate	✓	Thionyl chloride	✓
Propane (gas)	✓	Titanium tetrachloride	✓
Propylene (gas)	✓	Toluene	✓
Pyridine	✓	2,4-Toluenediisocyanate	✓
Salicylic acid	✓	Transformer oil (Mineral type)	✓
Seawater/brine	✓	Trichloroethylene	✓
Silicones (oil/grease)	✓	Vinegar	✓
Soaps	✓	Vinyl chloride (gas)	✓
Sodium aluminate	✓	Vinylidene chloride	✓
Sodium bicarbonate	✓	Water	✓
Sodium bisulfite	✓	White spirits	✓
Sodium carbonate	✓	Xylenes	✓
Sodium chloride	✓	Xylenol	✓
Sodium cyanide	✓	Zinc sulfate	✓



Suitable



Depends on operating conditions



Unsuitable



No data or insufficient evidence