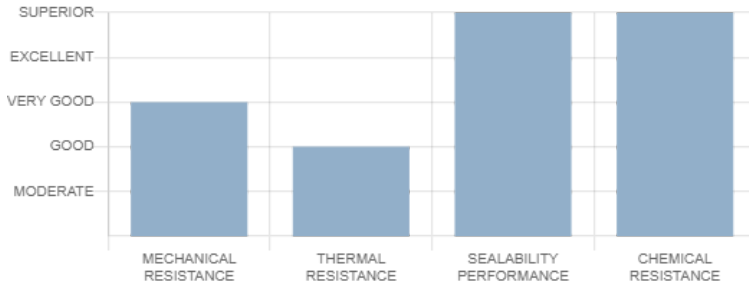


DONIFLON® 900E



DONIFLON® 900E is an ePTFE gasket sheet manufactured by hot-expansion of 100% virgin PTFE, with fibrilised isotropic structure. It has outstanding chemical resistance to various media, except molten alkali metals. Its excellent compressibility enables very good adaptability to pressure sensitive connections of ceramic, glass, plastic-lined pipes or uneven flanges. It is recommended for pharmaceutical and food industries.

PROPERTIES



APPROPRIATE INDUSTRIES & APPLICATIONS

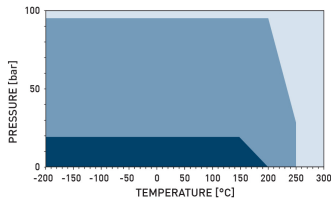
-  CHEMICAL INDUSTRY
-  FOOD INDUSTRY
-  HEATING SYSTEMS
-  PETROCHEMICAL INDUSTRY
-  PHARMACEUTICAL INDUSTRY
-  STEAM SUPPLY

Composition	Expanded PTFE
Color	White
Approvals and compliances	EC 1935/2004
Sheet dimensions	Size (mm): 1500 x 1500 Thickness (mm): 0.5 1.0 1.5 2.0 3.0 4.0 5.0 6.0 Other sizes and thicknesses available on request

TECHNICAL DATA

Typical values for 2 mm thickness

Density	DIN 28090-2	g/cm ³	0.8
Compressibility	ASTM F36J	%	55
Recovery	ASTM F36J	%	12
Tensile strength	ASTM F152	MPa	32
Residual stress	DIN 52913		
30 MPa, 300°C, 16 h		MPa	16
Specific leak rate	DIN 3535-6	mg/(s·m)	0.002
pH range			0-14
Operating conditions			
Minimum temperature		°C/°F	-200/-328
Maximum temperature		°C/°F	260/500
Max pressure		bar/psi	200/2900



P-T diagrams indicate the maximum permissible combination of internal pressure and service temperature which can be simultaneously applied to a given gaskets thickness, size and tightness class. Given the wide variety of gasket applications and service conditions, these values should only be regarded as a guidance for the proper gasket assembly. In general, thinner gaskets exhibit better P-T properties.

- General suitability - Under common installation practices and chemical compatibility
- Conditional suitability - Appropriate measures ensure maximum performance for joint design and gasket installation. Technical consultation is recommended
- Limited suitability - Technical consultation is mandatory.

CHEMICAL RESISTANCE CHART

The recommendations made here are intended as a guideline for the selection of a suitable gasket type. As the function and durability of products are dependent upon a number of factors, the data may not be used to support any warranty claims. If there are specific type-approval regulations, these have to be complied with.

Legend: + Recommended ○ Recommendation depends on operating conditions, - Not recommended

Acetamide	+	Calcium chloride	+	Freon-12 (R-12)	+	Motor oil	+	Sodium bisulfite	+
Acetic acid, 10%	+	Calcium hydroxide	+	Freon-134a (R-134a)	+	Naphtha	+	Sodium carbonate	+
Acetic acid, 100% (Glacial)	+	Carbon dioxide (gas)	+	Freon-22 (R-22)	+	Nitric acid, 10%	+	Sodium chloride	+
Acetone	+	Carbon monoxide (gas)	+	Fruit juices	+	Nitric acid, 65%	+	Sodium cyanide	+
Acetonitrile	+	Cellosolve	+	Fuel oil	+	Nitrobenzene	+	Sodium hydroxide	○
Acetylene (gas)	+	Chlorine (gas)	+	Gasoline	+	Nitrogen (Gas)	+	Sodium hypochlorite (Bleach)	+
Acid chlorides	+	Chlorine (in water)	+	Gelatin	+	Nitrous gases (NOx)	+	Sodium silicate (Water glass)	+
Acrylic acid	+	Chlorobenzene	+	Glycerine (Glycerol)	+	Octane	+	Sodium sulfate	+
Acrylonitrile	+	Chloroform	+	Glycols	+	Oils (Essential)	+	Sodium sulfide	+
Adipic acid	+	Chloroprene	+	Helium (gas)	+	Oils (Vegetable)	+	Starch	+
Air (gas)	+	Chlorosilanes	+	Heptane	+	Oleic acid	+	Steam	+
Alcohols	+	Chromic acid	+	Hydraulic oil (Glycol based)	+	Oleum (Sulfuric acid, fuming)	+	Stearic acid	+
Aldehydes	+	Citric acid	+	Hydraulic oil (Mineral)	+	Oxalic acid	+	Styrene	+
Alum	+	Copper acetate	+	Hydraulic oil (Phosphate ester-based)	+	Oxygen (gas)	+	Sugars	+
Aluminium acetate	+	Copper sulfate	+	Hydrazine	+	Palmitic acid	+	Sulfur	+
Aluminium chlorate	+	Creosote	+	Hydrocarbons	+	Paraffin oil	+	Sulfur dioxide (Gas)	+
Aluminium chloride	+	Cresols (Cresylic acid)	+	Hydrochloric acid, 10%	+	Pentane	+	Sulfuric acid, 20%	+
Aluminium sulfate	+	Cyclohexane	+	Hydrochloric acid, 37%	+	Perchloroethylene	+	Sulfuric acid, 98%	○
Amines	+	Cyclohexanol	+	Hydrofluoric acid, 10%	+	Petroleum (Crude oil)	+	Sulfuryl chloride	○
Ammonia (Gas)	+	Cyclohexanone	+	Hydrofluoric acid, 48%	+	Phenol (Carbolic acid)	+	Tar	+
Ammonium bicarbonate	+	Decalin	+	Hydrogen (gas)	+	Phosphoric acid, 40%	+	Tartaric acid	+
Ammonium chloride	+	Dextrin	+	Iron sulfate	+	Phosphoric acid, 85%	+	Tetrahydrofuran (THF)	+
Ammonium hydroxide	+	Dibenzyl ether	+	Isobutane (Gas)	+	Phthalic acid	+	Thionyl chloride	+
Amyl acetate	+	Dibutyl phthalate	+	Isooctane	+	Potassium acetate	+	Titanium tetrachloride	+
Anhydrides	+	Dimethylacetamide (DMA)	+	Isoprene	+	Potassium bicarbonate	+	Toluene	+
Aniline	+	Dimethylformamide (DMF)	+	Isopropyl alcohol (Isopropanol)	+	Potassium carbonate	+	2,4-Toluenediisocyanate	+
Anisole	+	Dioxane	+	Kerosene	+	Potassium chloride	+	Transformer oil (Mineral type)	+
Argon (gas)	+	Diphenyl (Dowtherm A)	+	Ketones	+	Potassium cyanide	+	Trichloroethylene	+
Asphalt	+	Esters	+	Lactic acid	+	Potassium dichromate	+	Vinegar	+
Barium chloride	+	Ethane (Gas)	+	Lead acetate	+	Potassium hydroxide	○	Vinyl chloride (gas)	+
Benzaldehyde	+	Ethers	+	Lead arsenate	+	Potassium iodide	+	Vinylidene chloride	+
Benzene	+	Ethyl acetate	+	Magnesium sulfate	+	Potassium nitrate	+	Water	+
Benzoic acid	+	Ethyl alcohol (Ethanol)	+	Maleic acid	+	Potassium permanganate	+	White spirits	+
Bio-diesel	+	Ethyl cellulose	+	Malic acid	+	Propane (gas)	+	Xylenes	+
Bio-ethanol	+	Ethyl chloride (gas)	+	Methane (Gas)	+	Propylene (gas)	+	Xylenol	+
Black liquor	+	Ethylene (gas)	+	Methyl alcohol (Methanol)	+	Pyridine	+	Zinc sulfate	+
Borax	+	Ethylene glycol	+	Methyl chloride (Gas)	+	Salicylic acid	+		
Boric acid	+	Formaldehyde (Formalin)	+	Methylene dichloride	+	Seawater/brine	+		
Butadiene (gas)	+	Formamide	+	Methyl ethyl ketone (MEK)	+	Silicones (oil/grease)	+		
Butane (gas)	+	Formic acid, 10%	+	N-Methyl-pyrrolidone (NMP)	+	Soaps	+		
Butyl alcohol (Butanol)	+	Formic acid, 85%	+	Milk	+	Sodium aluminate	+		
Butyric acid	+	Formic acid, 100%	+	Mineral oil type ASTM 1	+	Sodium bicarbonate	+		

All information and data quoted are based upon decades of experience in the production and operation of sealing elements. This data may not be used to support any warranty claims. With its publication this latest edition supersedes all previous issues and is subject to change without further notice.