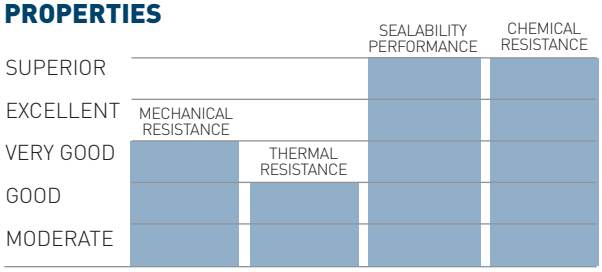
DONIFLON® 900E

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

- POTABLE WATER SUPPLY
- CHEMICAL INDUSTRY
- PETROCHEMICAL INDUSTRY
- PHARMACEUTICAL INDUSTRY
- FOOD INDUSTRY
- REFRIGERATION AND COOLING
- COMPRESSORS AND PUMPS
- VALVES

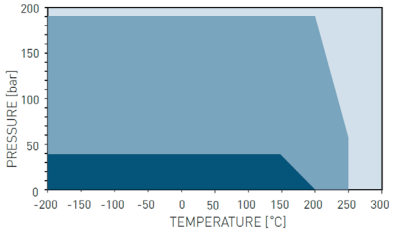
Composition	Expanded PTFE
Color	White
Approvals	EC 1935/2004

TECHNICAL DATA Typical values for 2 mm thickness

Density	DIN 28090-2	g/cm³	0.8
Compressibility	ASTM F36J	%	55
Recovery	ASTM F36J	%	12
Tensile strength	ASTM F152	MPa	32
Stress resistance	DIN 52913		
30 MPa, 16 h, 150 °C		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
Pressure		bar/psi	100/1450

P-T DIAGRAM

EN 1514-1, Type IBC, PN 40, DIN 28091-2 / 3.8, 2.0 mm



- 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.

P-T diagram indicates the maximum permissible combination of internal pressure and service temperature which can be simultaneously applied for a given gasket's 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.

Standard dimension of sheets	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.

Acetamide	+	Dioxane	+	Oleic acid	+
Acetic acid, 10%	+	Diphyl (Dowtherm A)	+	Oleum (Sulfuric acid, fuming)	+
Acetic acid, 100% (Glacial)	+	Esters	+	Oxalic acid	+
Acetone	+	Ethane (gas)	+	Oxygen (gas)	+
Acetonitrile	+	Ethers	+	Palmitic acid	+
Acetylene (gas)	+	Ethyl acetate	+	Paraffin oil	+
Acid chlorides	+	Ethyl alcohol (Ethanol)	+	Pentane	+
Acrylic acid	+	Ethyl cellulose	+	Perchloroethylene	+
Acrylonitrile	+	Ethyl chloride (gas)	+	Petroleum (Crude oil)	+
Adipic acid	+	Ethylene (gas)	+	Phenol (Carbolic acid)	+
Air (gas)	+	Ethylene glycol	+	Phosphoric acid, 40%	+
Alcohols	+	Formaldehyde (Formalin)	+	Phosphoric acid, 85%	+
Aldehydes	+	Formamide	+	Phthalic acid	+
Alum	+	Formic acid, 10%	+	Potassium acetate	+
Aluminium acetate	+	Formic acid, 85%	+	Potassium bicarbonate	+
Aluminium chlorate	+	Formic acid, 100%	+	Potassium carbonate	+
Aluminium chloride	+	Freon-12 (R-12)	+	Potassium chloride	+
Aluminium sulfate	+	Freon-134a (R-134a)	+	Potassium cyanide	+
Amines	+	Freon-22 (R-22)	+	Potassium dichromate	+
Ammonia (gas)	+	Fruit juices	+	Potassium hydroxide	?
Ammonium bicarbonate	+	Fuel oil	+	Potassium iodide	+
Ammonium chloride	+	Gasoline	+	Potassium nitrate	+
Ammonium hydroxide	+	Gelatin	+	Potassium permanganate	+
Amyl acetate	+	Glycerine (Glycerol)	+	Propane (gas)	+
Anhydrides	+	Glycols	+	Propylene (gas)	+
Aniline	+	Helium (gas)	+	Pyridine	+
Anisole	+	Heptane	+	Salicylic acid	+
Argon (gas)	+	Hydraulic oil (Glycol based)	+	Seawater/brine	+
Asphalt	+	Hydraulic oil (Mineral type)	+	Silicones (oil/grease)	+
Barium chloride	+	Hydraulic oil (Phosphate ester based)	+	Soaps	+
Benzaldehyde	+	Hydrazine	+	Sodium aluminate	+
Benzene	+	Hydrocarbons	+	Sodium bicarbonate	+
Benzoic acid	+	Hydrochloric acid, 10%	+	Sodium bisulfite	+
Bio-diesel	+	Hydrochloric acid, 37%	+	Sodium carbonate	+
Bio-ethanol	+	Hydrofluoric acid, 10%	+	Sodium chloride	+
Black liquor	+	Hydrofluoric acid, 48%	+	Sodium cyanide	+
Borax	+	Hydrogen (gas)	+	Sodium hydroxide	?
Boric acid	+	Iron sulfate	+	Sodium hypochlorite (Bleach)	+
Butadiene (gas)	+	Isobutane (gas)	+	Sodium silicate (Water glass)	+
Butane (gas)	+	Isooctane	+	Sodium sulfate	+
Butyl alcohol (Butanol)	+	Isoprene	+	Sodium sulfide	+
Butyric acid	+	Isopropyl alcohol (Isopropanol)	+	Starch	+
Calcium chloride	+	Kerosene	+	Steam	+
Calcium hydroxide	+	Ketones	+	Stearic acid	+
Carbon dioxide (gas)	+	Lactic acid	+	Styrene	+
Carbon monoxide (gas)	+	Lead acetate	+	Sugars	+
Cellosolve	+	Lead arsenate	+	Sulfur	+
Chlorine (gas)	+	Magnesium sulfate	+	Sulfur dioxide (gas)	+
Chlorine (in water)	+	Maleic acid	+	Sulfuric acid, 20%	+
Chlorobenzene	+	Malic acid	+	Sulfuric acid, 98%	+
Chloroform	+	Methane (gas)	+	Sulfuryl chloride	+
Chloroprene	+	Methyl alcohol (Methanol)	+	Tar	+
Chlorosilanes	+	Methyl chloride (gas)	+	Tartaric acid	+
Chromic acid	+	Methylene dichloride	+	Tetrahydrofuran (THF)	+
Citric acid	+	Methyl ethyl ketone (MEK)	+	Thionyl chloride	+
Copper acetate	+	N-Methyl-pyrrolidone (NMP)	+	Titanium tetrachloride	+
Copper sulfate	+	Milk	+	Toluene	+
Creosote	+	Mineral oil (ASTM no.1)	+	2,4-Toluenediisocyanate	+
Cresols (Cresylic acid)	+	Motor oil	+	Transformer oil (Mineral type)	+
Cyclohexane	+	Naphtha	+	Trichloroethylene	+
Cyclohexanol	+	Nitric acid, 10%	+	Vinegar	+
Cyclohexanone	+	Nitric acid, 65%	+	Vinyl chloride (gas)	+
Decalin	+	Nitrobenzene	+	Vinylidene chloride	+
Dextrin	+	Nitrogen (gas)	+	Water	+
Dibenzyl ether	+	Nitrous gases (NOx)	+	White spirits	+
Dibutyl phthalate	+	Octane	+	Xylenes	+
Dimethylacetamide (DMA)	+	Oils (Essential)	+	Xylenol	+
Dimethylformamide (DMF)	+	Oils (Vegetable)	+	Zinc sulfate	+

All information and data quoted are based upon decades of experience in the production and use 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.

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 depend upon a number of factors, the data may not be used to support any warranty claims.

\+ Recommended
? Recommendation depends on operating conditions
– Not recommended

DONIT TESNIT, d.o.o.
Cesta komandanta Staneta 38
1215 Medvode, Slovenia, Eu
Phone: +386 (0)1 582 33 00
Fax: +386 (0)1 582 32 06
+386 (0)1 582 32 08
Web: www.donit.eu
E-mail: info@donit.eu

Date of issue: 09.2019 / TDS-D900E-09-2019