

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.



Composition	Expanded PTFE
Color	White
Approvals and compliances	EC 1935/2004, FDA 21CFR177.1550
Sheet dimensions	Sizes (mm): 1500 x 1500 Other sizes on request Thicknesses (mm):2 3 Rolls:/ Other sizes and thicknesses available on request
Tolerances	Length and width ± 50 mm Thickness ≤ 1.0 mm ± 0.1 mm Thickness > 1.0 mm ± 10 %
Surface finish	

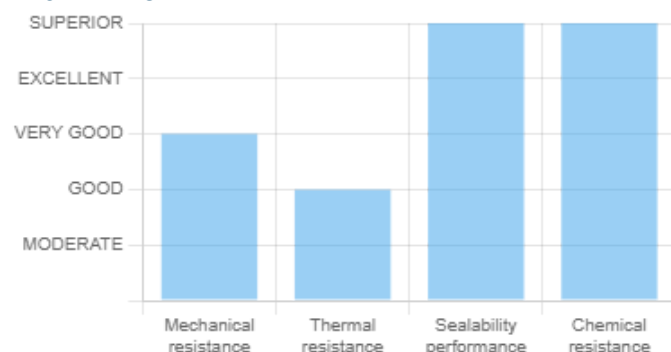
TECHNICAL DATA for 2 mm

Density	DIN 28090-2	g/cm3	0.9
Compressibility	ASTM F36J	%	58
Recovery	ASTM F36J	%	20
Tensile strength	ASTM F152	MPa	32
Residual stress	DIN 52913		
30 MPa, 150°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	250/482
Maximum pressure		bar/psi	95/1378

APPROPRIATE INDUSTRIES & APPLICATIONS

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

PROPERTIES



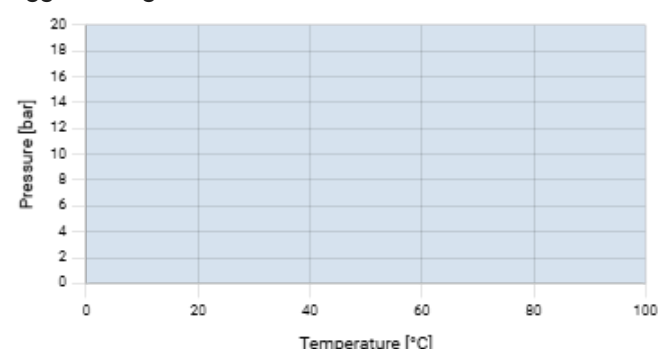
CHEMICAL RESISTANCE CHART

EN 13555

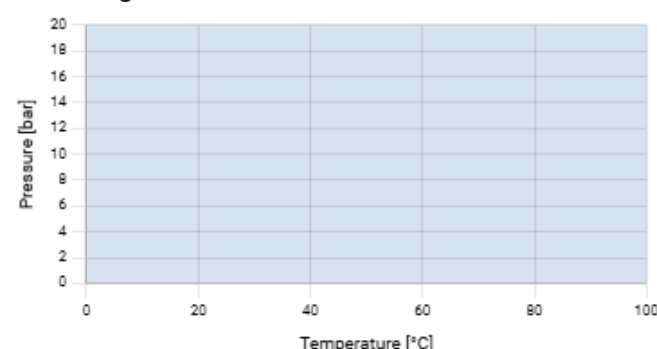


P-T DIAGRAMS EN 1514-1, Type IBC, PN 40, DIN 28091-2 / 3.8, 2 mm

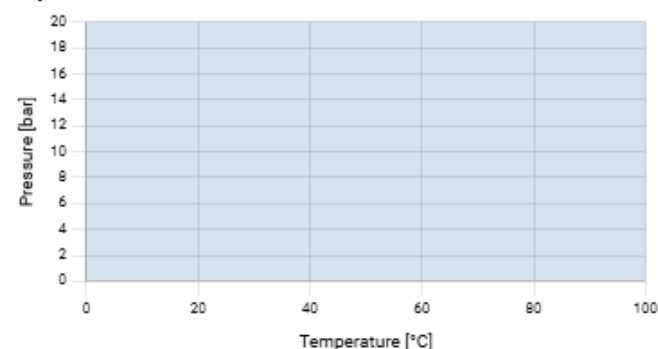
Aggressive gasses



Steam or gasses



Liquids

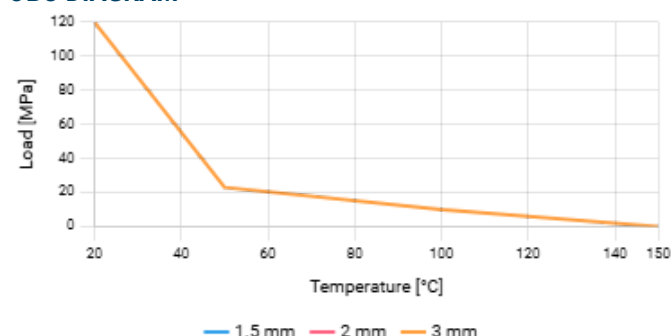


Legend:

- 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 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.

σBO DIAGRAM DIN 28090-1



σBO diagrams represent σBO values for different gasket material thicknesses. These values indicate the maximum in-service compressive pressures which can be applied on the gasket area involved without destructing or damaging the gasket material.

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.