



DESCRIPTION

Doniflex® G-U is a material composed of aramid fibers, graphite, inorganic fillers, and NBR. It is characterized by exceptional performance for heavy-duty applications.

Composition	Graphite + aramid fibers + inorganic fillers + NBR
Color	Anthracite
Surface finishing	Standard : 4AS On request : IQ, Graphite, PTFE
Standards and certifications	EC 1935/2004

APPLICATIONS

- Automotive and engine manufacturer
- Chemical industry
- General industry
- Heat exchangers
- Paper industry
- Power station
- Steam
- Valve
- Water distribution
- Drinking water
- High temperatures

DIMENSIONS

Stanadrd format (mm)	1500 x 1480 2000 x 1480
Thickness (mm)	1.00 - 1.50 - 2.00 - 3.00

TECHNICAL DATA

Test on a 2 mm thick sample

Test description	Standard	Unit	Value
Specific gravity	DIN 28090-2	g/cm ³	1.25
Leachable chloride content	FSA NMG 202	ppm	<20
Leachable fluoride content	FSA NMG 203	ppm	<20
Compressibility	ASTM F36J	%	35
Recovery	ASTM F36J	%	25
Tensil strenght	ASTM F152		
Longitudinal			5

TECHNICAL DATA SHEET

DONIFLEX® G-U



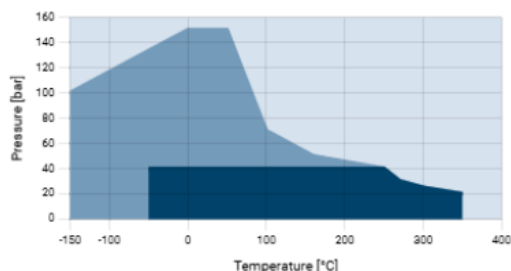
Test description	Standard	Unit	Value
Cross-direction			5
Residual stresses	DIN 52913		
16h, 50 MPa, 175°C		MPa	42
16h, 50 MPa, 300°C		MPa	37
Specific leakage rate	DIN 3535-6	mg/(s·m)	0.05
Thickness variation after immersion	ASTM F146		
IRM 903 Oil, 5h, 150°C		%	3
Fuel ASTM B, 5h, 23°C		%	3
Mass change after immersion	ASTM F146		
IRM 903 Oil, 5h, 150°C		%	30
Fuel ASTM B, 5h, 23°C		%	25
Compression module	DIN 28090-2		
At room temperature ϵ_{KSW}		%	30
At high temperature $\epsilon_{WSW/200^\circ C}$		%	6
Creep relaxation	DIN 28090-2		
At room temperature ϵ_{KRW}		%	3.5
At high temperature $\epsilon_{WRW/200^\circ C}$		%	0.3
Creep deformation	DIN 28090-2		
Thickness variation at 20°C, 50 MPa		%	30
Thickness variation at 300 °C, 50 MPa		%	12
Thickness variation at 400 °C, 50 MPa		%	15



DIAGRAMME P-T

EN 1514-1, Type IBC, PN40, DIN 28091-2 / 3.8, 2.0mm

Vapeur ou gaz



Good sealing performance under conditions of chemical compatibility.



The installation and specification of the joints must be carefully considered to ensure performance. A technical assessment is recommended.



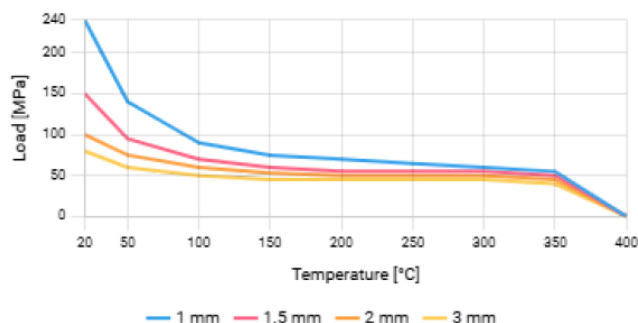
A technical consultation is mandatory.

P-T diagrams indicate the maximum permissible combination of internal pressure and operating temperature that can be applied simultaneously to a given gasket, based on its material, thickness, dimensions, and sealing class. Given the wide variety of gasket applications and service conditions, these values should be regarded only as guidelines for proper assembly. In general, thinner gaskets exhibit superior P-T characteristics.

The technical specifications mentioned above represent typical average values obtained using the indicated test methods and are therefore subject to normal manufacturing variations. They are provided for informational purposes only. They do not constitute a guarantee, and we recommend conducting a trial before final installation.



σBO DIAGRAM DIN 28090-1



The σ_{BO} diagrams show σ_{BO} values for various gasket material thicknesses. These values indicate the maximum in-service compressive pressures that can be applied to the relevant gasket surface without destroying or damaging the gasket material.

All information and data cited are based on decades of experience in the manufacture and use of sealing components. This data cannot be used to support warranty claims. Upon publication, this latest edition supersedes all previous versions and is subject to change without notice.