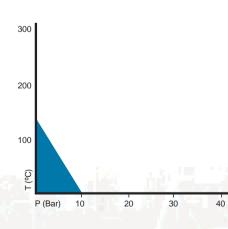
Technical Data.

Density (±10%)		0,8 g/cm ³
Compressibility at 70 kg/cm ³		25%-40%
Recovery		>40%
Tensile strength across grain		>12 MPa
Increases after immersion 22 h; 21	1°C - 30°C ir	n:
	weight	Thickness
ASTM oil N°3	15%	5%
ASTM fuel B	15%	5%

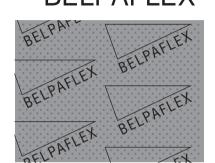
Distilled water......90%.....30%

Standard thickness (mm).: 0,25; 0,4; 0,8; 1,0; 1,2; 1,6; 2,0; 2,4; 3,2; 4,8 Other upon request

Standard sizes · Rolls Imt wide



BELPAFLEX



Belpaflex comprises two asbestos free paper sheets assembled around a central rectangular perforated steel sheet. It is suitable for use in high temperture resistant cylinder head gaskets and exhaust manifold gaskets on petrol and diesel engines and is resistant to oil, fuel and

Belpaflex is a gasket material for the automotive industy

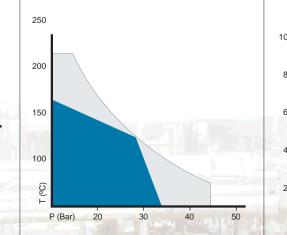
lechnical Data.	
Temperature limit	°C 350
Pressure Bar	150 Max.
Density g/cm ³	2,3 - 2,5
Compressibility ASTM F-36	8 - 15%
Desavany ACTM E 24	40%

Standard thickness (mm) 0,8; 1,2; 1,6; 2,0; 3,0

Sheet size (mm) 1000x520

Other upon request

Transverse tensile strength ASTM F-152.......>42 Mpa Tanged metal mm...... THICKNESS INCREASE ASTM F-146 ASTM oil N°I 5h I50°C....



BELPAMICA



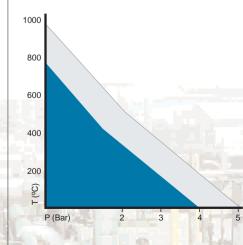
BELPA® MICA for high temperatures is made of shelly Mica compressed in sheets reinforced with perforated stainless steel 316 without binder. This material is suitable at high temperatures gaskets at low pressures and specially designed for services where high temperatures combined with fluids could promote the oxidising process of materials such as graphite.

Recommended for high temperature turbines, turbochargers, heat exchangers, hot dry gas applications and on the whole for high temperature services. In automotive industry is suitable to be used in exhaust manifolds and engines. It is also recommended for chemical, petrochemical industry and refining plants where high temperature operations are carried out (mainly pyrolysis and catalysis processes).

Technical Data.

Compressibility ASTM F-36	25-30%	
ecovery ASTM F-36	>25%	
ransverse tensile strength ASTM F-152	80 Mpa	
Sas permeability DIN 3535/6	I ,7 ml/s	
Creep Relaxation 50 Mpa/300 °C DIN 52913	30 Mpa	

Standard sizes (mm) 1000 x 1200 Standard thickness (mm). 1,0; 1,5; 2,0; 3,0





















Edificio Innobak C/Ugartebeitia, n° 7 - 2ª Planta Dpto. 8 - 48903 Baracaldo Tel. +34 94 418 00 11 - Fax: +34 94 418 91 83 email: access@monterofye.com - www.monterofye.com

GASKET MATERIALS







BELPA®



GASKET MATERIALS



BELPAFLON PL 9005 LC

FLON PL 9005 LC BELPAFLON PL 90 BELPAFLON PL 9005 LC BELPAFLO

FLON PL 9005 LC BELPAFLON PL 90

BELPAFLON PL 9005 LC BELPAFLO FLON PL 9005 LC BELPAFLON PL 90

BELPAFLON PL 9005 LC BELPAFLO FLON PL 9005 LC BELPAFLON PL 90

BELPAFLON PL 9005 LC BELPAFLO

P.T.F.E sheet with an addition of special particles in order to

with an excellent chemical resistance, including acids and

alcalis at high concentrations (sodium hydroxide, sulphuric

acid, nitric acid, hydrogen chloride, potassium hydroxide).

It is specially designed for services in which the chemical

attack is combined with high pressures and temperatures

improving on the traditional P.T.F.E. sheets behaviour. There

is an addition of special charges that prevents the creep

Non flammable and no ageing., it is easy to cut and it has a

excellent assembly and disassembly as its antistick propierties.

Recommended in Chemical and Petrochemical Industry and

Paper industry, specially instead of Sandwich gasket.

BELPAFLON PL 9006 LC: white specially designed for

BELPAFLON PL 9000 LC: specially designed for low

loading applications in glass, ceramic and plastic flanges.

Leakage Rate (N2) cm³/min. DIN 3535.....<0,02

pharmaceutical and foodstuff Industry.

Compressibility ASTM F-36 A.......

BELPAFLON PL 9005 LC

Temperature min./max. °C.....

Standard sizes(mm): 1500 x 1500

Standard thickness (mm). 1,5; 2,0; 3,0

Recovery ASTM F-36 A.....

Technical Data.

Density (±10%)...

Other upon request

Complies FDA

BELPAGRAF



Gasket material made of pure expanded mineral graphite with corrosion inihibitor. Due the natural characteristics of graphite this is a high quality material with an universal use in high pressure and temperature services. Excellent resistance to steam. Meets most refinery, petrochemical and industrial service requirements for long time periods and a wide range of temperatures. API 607 FIRE SAFE TEST APPROVAL.

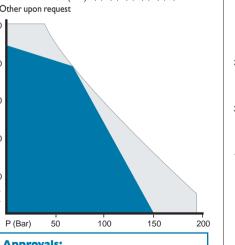
Three different grades are manufactured:

Other upon request

BELPAGRAF SL: pure mineral expanded graphite laminate. BELPAGRAF SR/: laminate with flat 316/316L stainless steel

BELPAGRAF SE/GE: laminate mechanically bonded to a 316/316L stainless steel tanged insert (0,1 mm thick). Grade for high pressures and temperatures. Also available with higher density (1.45 gr/cm) ref. BELPAGRAF COMPAC.

Technical Data. Density (10%)	40% 20% <0,01cm³/min
Carbon content	2% a 3000°C
Standard sizes (mm): 1000 × 1000 / 1500 × 1500 / 2000 × 1500 Standard thickness (mm). 0,5; 0,8; 1,0; 1,5;	



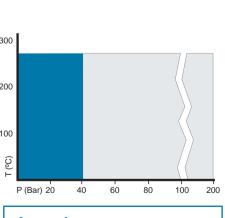
BELPAFLON PL

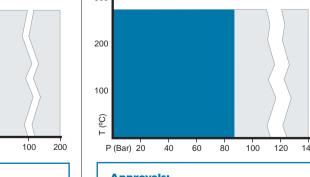
PL BELPAFLON PL BELPAFLON PAFLON PL BELPAFLON PL BELP PL BELPAFLON PL BELPAFLON PAFLON PL BELPAFLON PL BELF I PL BELPAFLON PL BELPAFLON PAFLON PL BELPAFLON PL BELP PL BELPAFLON PL BELPAFLON

BELPAFLON PL is made of pure 100% expanded P.T.F.E. processed in a manufacturing way that produces a microstructure with a high number of multidirectional orientation of the fibers. This process confers a great tructural uniformity that gives the material the necessary ualities to be used in a wide range of applications. BELPAFLON PL is recommended where high resistance to chemical attack and corrosion is required and, in special, for chemical, pharmaceutical and food industry (Complies FDA FDA homologation).

echnical Data.	
Density (10%)	0,7 g/cm ³
empératuré min./max. °C	200/+260
Compressibility ASTM F-3	66%
ecovery ASTM F-36 A	10%
eakage Rate (N2) cm³/min. DIN 3535	0,01 ml/min

Standard sizes (mm): I500 x I500 Standard thickness (mm). 1,5; 2,0; 3,0 Other upon request





Approvals: FDA (FDA 21,CFR 177-1550)

PRESSURE - TEMPERATURE GRAPHS

API 607 Fire Safe Test Approval

AREA OF USE OF THE PRODUCT WHEN PROPERLY INSTALLED

AREA OF RESTRICTED USE OF THE PRODUCT. SUBMIT SERVICE CONDITIONS TO FYESA FOR TECHNICAL RECOMMENDATION.

FDA (FDA 21,CFR 177-1550)

IMPORTANT: The decision areas do not represent limits of service for the materials. They are only guides for making a correct selection of the material. Good performance and long service life of gaskets depend in large measure on fitting and operation conditions, over which MONTERO FYE have no control. The data given on this technical sheet should not be used as application limits, but as guidance for an appropriate choice. We can offer guarantees only for the quality of our products.

TECHNICAL DATA: Typical properties for 2 mm thickness.







BELPA® CSA-25



Compressed sheets for gaskets made of mineral fibres and dispersed inorganic loads in a matrix of

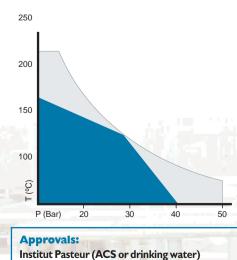
The product BELPA® CSA-25 is suitable for a wide range of applications. This material has low permeability and cost, that makes this asbestos-free product suitable for most common uses (air, water, some oil and heavy grease).

Material designed for water, air, gas and general moderated applications, specially for drinking water applications (Institute Pasteur approval for drinking water). It is also available with anti-stick coating ref. BELPA® CSA 25 G.

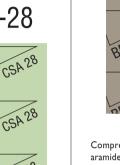
Technical Data.

Density (±10%)1,65 g/cm ³
Compressibility ASTM F-36 A10% - 20%
Recovery ASTM F-36 A>30%
Transverse tensile strength ASTM F-1525 MPa
Gas permeability DIN 3535/6< I cm ³ /min.
Thickness increase ASTM F-146
ASTM oil N∫3 5h 150∫C<25%

Standard sizes (mm.): 2000 x 1500 Standard thickness (mm.): 0.5; 0,8; 1,0; 1,5; 2,0; 3,0 Other upon request



BELPA® CSA-28



Compressed sheets for gaskets made of mineral fibres and organic fibres mixed in a matrix of NBR rubber. The product BELPA® CSA-28 is suitable for a wide range of applications. This material has good resistance

at medium temperature and pressure in common uses (air, water, oil, solvents, etc). Material specially designed for water, air, gas and oils and general moderate applications. It is also available

Compressibility ASTM F-36 A7% - 15%

Recovery ASTM F-36 A.....>45%

Gas permeability DIN 3535/6..... I cm³/min.

Transverse tensile strength ASTM F-152.......7 MPa

to oils and low gas permeability, that makes this

asbestos-free product suitable for most common uses

with anti-stick coating ref. BELPA® CSA 28 G.

Thickness increase ASTM F-146

ASTM oil N°3 5h 150°C......

ASTM fuel B 5h RT......

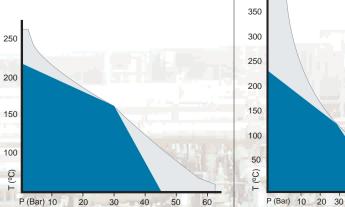
Technical Data.

Density (±10%).....

The state of the s	
Gas permeability DIN 3535/6	<i cm<sup="">3/m</i>
Thickness increase ASTM F-146	
ASTM oil N°3 5h 150°C	<12
ASTM B 5h I50°C	<13

Standard thickness (mm.): 0,5; 0,8; 1,0; 1,5; 2,0; 3,0 Other upon request

Standard sizes (mm.): 2000x1500 Standard thickness (mm.): 0,5; 0,8; 1,0; 1,5; 2,0; 3,0 Other upon request



.....<12%

BELPA® CSA-30



Compressed sheets for gaskets made of mineral fibre, aramide and dispersed inorganic loads mixed in a matrix

The product BELPA® CSA-30 is suitable for a wide range of applications. This material has good mechanical propierties and low gas permeability, that makes this asbestos-free product suitable for most common uses (air, water, oil, solvents, etc).

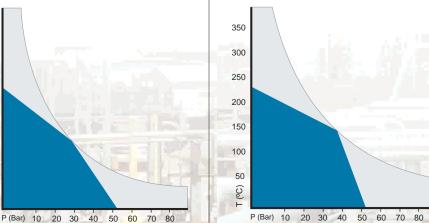
Material specially designed for water, air, gas and oils and general moderate applications.

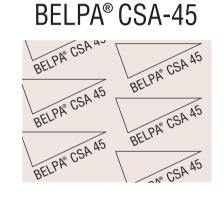
Technical Data.

Density (± 10%)1,75 g/cm ³
Compressibility ASTM F-36 A15-20%
ecovery ASTM F-36 A>50%
ransverse tensile strength ASTM F-1527 MPa
Sas permeability DIN 3535/6< cm³/min.
hickness increase ASTM F-146
STM oil N°3 5h 150°C<12%

Standard sizes (mm.): 2000 x 1500

Standard thickness (mm.): 0,5; 0,8; 1,0; 1,5; 2,0; 3,0 Other upon request





Compressed sheets for gaskets made of mineral fibre, aramide and dispersed inorganic loads mixed in a matrix of rubber.

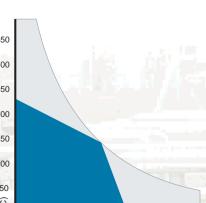
The product BELPA® CSA-45 is suitable for a wide range of applications. This material has good resistance to oils and low gas permeability and high stress relaxation that makes this asbestos-free product suitable for most common uses in industrial applications, (air, water, oil, solvents, etc).

Material specially designed for engines, motor and automotive applications.

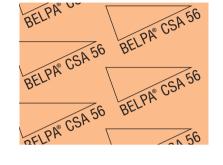
Technical Data.

Standard sizes (mm.): 2000 x 1500

Density (± 10%)	1,85 g/cm ³
Compressibility ASTM F-36 A	7% -15%
Recovery ASTM F-36 A	>45%
Transverse tensile strength ASTM	F-1528 MPa
Gas permeability DIN 3535/6 Thickness increase ASTM F-146	< I cm ³ /min.
ASTM oil N°3 5h 150°C	<15%
ASTM fuel B 5h 20°C	<15%



BELPA® CSA-56



High quality compressed sheets for gaskets made of mineral fibre, aramide and dispersed inorganic loads mixed in a matrix of type SBR rubber. This material has got exceptional flexibility and

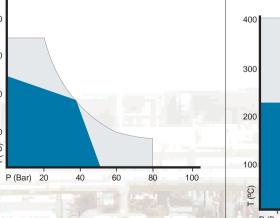
behaviour on cutting what add to its characteristic of under-control swelling in oils making a material with good suitability for the automotive industry and machinery construction for general use. It has good resistance to compression, excellent adaptability and low gas permeability.

Technical Data. Density (± 10%) ...

ompressibility ASTM F-36 A	7% - 15%
covery ASTM F-36 A	>45%
ansverse tensile strength ASTM F-15	27 MPa
s permeability DIN 3535/6<	I cm ³ /min.
ickness increase ASTM F-146	
TM oil N°3 5h 150°C	<15%
TM fuel B 5h 20°C	<15%

.... I,70 g/cm³

Standard sizes (mm.): 1500 x 1500 Standard thickness (mm.): 0,5; 0,8; 1,0; 1,5; 2,0; 3,0 Other upon request



BELPA® CSA-50



Compressed sheets for gaskets made of mineral fibre, aramide and dispersed inorganic loads mixed in a matrix of type NBR rubber.

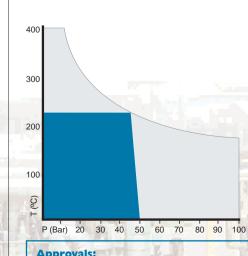
BELPA® CSA-50 confer temperature and pressure resistance to the material, making it suitable for a wide range of industrial sealing applications. Gasket joint material used in whole services, industrial plants and in special in water, gas, oils and hydrocarbons (up to a moderated temperature) pipes. It is also available with steel wire reinforcement and anti-stick coating ref. BELPA CSA-50 MG.

Technical Data Density (± 10%)

, (=)	
Compressibility ASTM F-36 A7% - 15%	
Recovery ASTM F-36 A>50%	
Transverse tensile strength ASTM F-1529 MPa	
Gas permeability DIN 3535/6<1 cm ³ /min.	
Thickness increase ASTM F-146	
ASTM oil N°3 5h 150°C<10%	
ASTM fuel B 5h 20°C<10%	

1 75 σ/cm³

Standard sizes (mm.): 1500 x 1500 / 2000 x 1500 Standard thickness (mm.): 0,5; 0,8; 1,0; 1,5; 2,0; 3,0 Other upon request



DVGW (Din 3535-6 for gas supply)

TZW (KTW for drinking water)

DVGW (VP-401 for high temperature ingas)

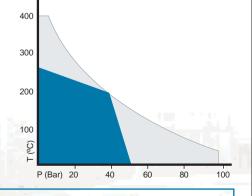


High quality compressed sheets for gaskets made of mineral fibres, aramid and dispersed inorganic loads in a matrix of high quality NBR rubber.

This material has got high compressibility and low gas

ensity (± 10%)1,75 g/cm ³	
ompressibility ASTM F-36 A7% -15%	
covery ASTM F-36 A>50%	
ansverse tensile strength ASTM F-15211 MPa	
s permeability DIN 3535/6< cm³/min.	
ickness increase ASTM F-146	
TM oil N°3 5h 150°C<3%	
TM fuel B 5h 20°C<5%	

Standard sizes (mm.): I500 x I500 Standard thickness (mm.): 0,5; 0,8; 1,0; 1,5; 2,0; 3,0 Other upon request



DVGW (Din 3535-6 for gas supply) WRAS (BS 6920 for drinking water) AGA (AG 208 for combustible-town gas) TZW (KTW for drinking water)

BELPA® CSA-320



permeability, excellent characteristics for many industrial services. Material suitable for use with air water. oils, hydrocarbons and gases, Particularly suitable for use in compressors, and in shipbuilding and hydraulic systems.It is also available with steel wire reinforcement

Technical Data

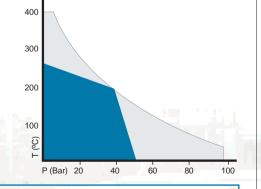
ity (± 10%)	1,75 g/cm³
pressibility ASTM F-36 A	7% -15%
very ASTM F-36 A	>50%
verse tensile strength ASTM F-I	15211 MPa
ermeability DIN 3535/6	<i cm³="" min.<="" td=""></i>
ness increase ASTM F-146	
I oil N°3 5h I50°C	<3%
l fuel B 5h 20°C	<5%

Approvals:

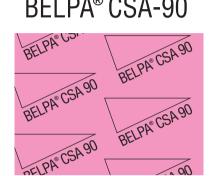


and anit-stick coating ref. BELPA® CSA 320 MG.

sity (± 10%)1,/5 g/cm ³	
pressibility ASTM F-36 A7% -15%	
very ASTM F-36 A>50%	
sverse tensile strength ASTM F-15211 MPa	
permeability DIN 3535/6< cm³/min.	
ness increase ASTM F-146	
1 oil N°3 5h I50°C<3%	
1 fuel B 5h 20°C<5%	



DVGW (VP-401 for high temperature in gas)

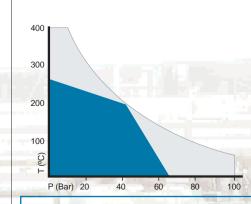


Premium quality compressed sheets for gaskets made of mineral fibre, aramide and dispersed inorganic loads mixed in a matrix of high quality type NBR rubber. This material has got high compressibility, good tensile strength and low gas permeability, excellent characteristics for many industrial services, where the high demand of resistance to temperature and pressure must be combined (GRADO X: BS 7531). It also available with steel wire reinforcement and anti-stick

coating ref. BELPA CSA 90 MG.

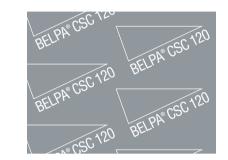
Technical Data.
Density (± 10%)1,65 g/cm ³
Compressibility ASTM F-36 A7% - 15%
Recovery ASTM F-36 A>50%
Transverse tensile strength ASTM F-15212 MPa
Gas permeability DIN 3535/6< cm ³ /min.
Thickness increase ASTM F-146
ASTM oil N°3 5h 150°C<3%
ASTM fuel B 5h 20°C<7%

Standard sizes (mm.): 1500 x 1500 Standard thickness (mm.): 0,5; 0,8; 1,0; 1,5; 2,0; 3,0 Other upon request



DVGW (Din 3535-6 for gas supply) DVGW (VP-401 for high temperature ingas) WRAS (BS 6920 for drinking water)

BELPA® CSC-120



Premium quality compressed sheets for gaskets made of mineral fibre, aramide and dispersed inorganic loads mixed in a matrix of type NBR rubber.

This material has a very good mechanical resistance and an acceptable resistance to steam. This material is suitable for a wide range of industrial services. It is also available with steel wire reinforcement and anitstick coating BELPA® CSA 120 MG.

Technical Data

Density (± 10%)1,70 g/cm ³
Compressibility ASTM F-36 A7% - 15%
Recovery ASTM F-36 A>50%
Transverse tensile strength ASTM F-15212 MPa
Gas permeability DIN 3535/6< cm³/min.
Thickness increase ASTM F-146
ASTM oil N°3 5h 150°C<8%
ASTM fuel B 5h 20°C<10%

P (Bar) 20 30 40 50 60 70 80 90 100 110 120

Standard sizes (mm.):1500 x 1500

Recovery ASTM F-36 A...... Standard thickness (mm.): 0,5; 0,8; 1,0; 1,5; 2,0; 3,0 Transverse tensile strength ASTM F-152.....12 MPa Other upon request Gas permeability DIN 3535/6.......<0,5 cm³/min. < I Thickness increase ASTM F-146 ASTM oil N°3 5h 150°C ... ASTM fuel B 5h 20°C...

Standard sizes (mm.): 1500 x 1500 Standard thickness (mm.): 0.5; 0,8; 1,0; 1,5; 2,0; 3,0 Other upon request

BELPA® CSA-420

Premium quality compressed sheets for gaskets

made of mineral fibre, aramide and dispersed

inorganic loads mixed in a matrix of high quality

This material offers high stress relaxation (Grade Y),

llent characteristics for universal services. Material

suitable for use with air, water, oils, hydrocarbons,

gases and common uses. Particularly suitable for use

in compressors, pumps, valves and OEM equipment.

Compressibility ASTM F-36 A.....7%-15%

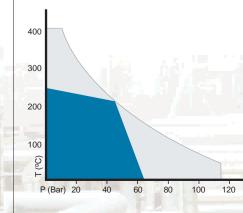
....1,80 g/cm³

high compressibility and low gas permeability, exce-

type NBR rubber.

Technical Data.

Density (± 10%)



BELPA® CSA-520

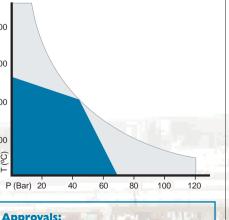


Premium quality compressed sheets for gaskets made of mineral fibre, aramide and dispersed inorganic loads mixed in a matrix of high quality type NBR rubber. BELPA® CSA-520 has the lowest gas permeability value, with the highest tensile strength and the best flexibility. BELPA® CSA-520 is a high-tech product with the highest stress relaxation value (GRADE X) in the market. Material suitable for many uses and with most of the fluids. TAluft VDI 2440 approval (lowest leakage at 250 °C). Universal gasket material for every equipment and services.

Technical Data.

Density (± 10%)	I ,80 g/cm ³
Compressibility ASTM F-36 A	7% -15%
Recovery ASTM F-36 A	>55%
Transverse tensile strength ASTM F-I	5213MPa
Gas permeability DIN 3535/6<	I cm ³ /min.
Thickness increase ASTM F-146	
ASTM oil N°3 5h 150°C	<6%
ASTM fuel B 5h 20°C	<8%

Standard sizes (mm.): 1500 x 1500 Standard thickness (mm.): 0.5; 0,8; 1,0; 1,5; 2,0; 3,0 Other upon request

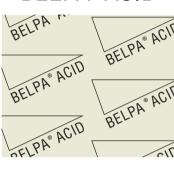


TA LUFT (VDI 2440 low emission at 250/C)

DVGW (Din 3535-6 for gas supply) WRAS (BS 6920 for drinking water)

TZW (KTW for drinking water)

BELPA® ACID



Compressed sheets for gaskets made of mineral fibre aramide and dispersed inorganic loads mixed in a matrix The resulting gasket sheet is recommended for use on

a wide range of service conditions with chemica resistance to many products including most of the acids oils, alkalis and solvents. The product has been designed for use with the acid and alkali media most frequently found in industry.

Technical Data. Density (± 10%)....

Recovery ASTM F-36 A>
Gas permeability DIN 3535/6< I cm ³
Thickness increase ASTM F-146
ASTM oil N°3 5h 150°C
ASTM fuel B 5h 20°C
H2SO4 (72%) 24 H/RT
HCI (18%) 24 H/RT<
HNO3 (33%) 24 H/RT<
Na (OH) (50%) 24 H/RT

.....7-15%

Compressibility ASTM F-36 A......

Standard sizes (mm.): 2000 x 1500 Standard thickness (mm.): 0,5; 0,8; 1,0; 1,5; 2,0; 3,0 Other upon request

