

JUNTAS **BESMA**

DONIT | Gasket Sheets



TESNIT[®]
Standard Line

BA-202

BA-203

BA-50

BA-55

BA-U

BA-GL

BA-CF

BA-Auto

BA-N

BA-C

BA-R

BAR-300

BAR-302



GASKET MATERIAL FOR LOWER LOADINGS

TESNIT® BA-202 is composed from organic fibers and NBR rubber. Chemical resistance against water, gases, oils and fuels is very good. Material is very suitable for the sealing applications at lower loadings.

PROPERTIES AND APPLICATIONS

Gasket material with good resistance to water, gases, fuels and oils at lower loadings.

Composition	Organic fibers, NBR
Approvals	TARC/MRPRA, DVGW KTW

SURFACE TREATMENT

Treatment with graphite, PTFE and anti-stick coating is available on request.

DIMENSIONS OF STANDARD SHEET

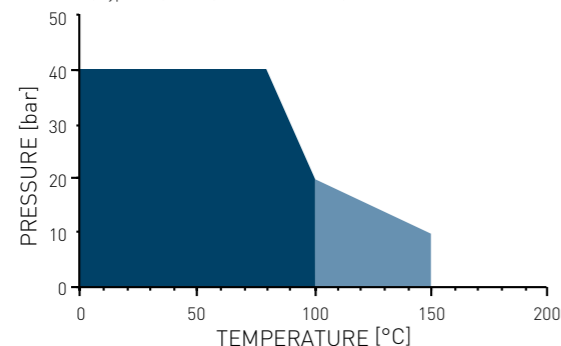
Sheet size (mm): 1000 x 1500 | 1500 x 1500 | 3000 x 1500 | 4500 x 1500
 Thickness (mm): 0.5 | 0.8 | 1.0 | 1.5 | 2.0 | 3.0
 Other dimensions and thicknesses on request.

TECHNICAL DATA Typical values for a thickness of 2 mm

Compressibility	ASTM F 36J	%	8
Recovery	ASTM F 36J	%	50
Tensile strength	DIN 52910	MPa	7
Stress resistance	DIN 52913		
16h, 175°C, 50MPa		MPa	20
Specific leak rate	DIN 3535-6	mg/(s•m)	0.08
Thickness increase	ASTM F 146		
Oil IRM 903, 5h, 150°C		%	10
ASTM Fuel B, 5h, 23°C		%	10
Max. operating conditions			
Peak temperature		°C/°F	180/356
Continuous temperature		°C/°F	140/284
- with steam		°C/°F	120/248
Pressure		bar/psi	40/580

P-T DIAGRAM

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



- General suitability using common installation practices under the condition of chemical compatibility.
- Max. performance is ensured through appropriate measures for joint design and gasket installation. Consultation is recommended.
- Limited application area. Technical consultation is mandatory.

The Pressure - Temperature charts are the most current method of determining the suitability of a gasket material in a known application. Maximum figures for temperature and pressure can be misleading. Max. temperature and max. pressure represent maximum values and should not be used simultaneously. They are given only for guidance, since this max. values depend not only on the type of gasket material but also on the assembly conditions. Use the pressure and temperature graphs to check suitability of chosen gasket material for your application (combination of pressure and temperature).



GASKET MATERIAL FOR MEDIUM LOADINGS

TESNIT® BA-203 is a special gasket material based on aramid fibers and NBR rubber. It has good resistance to water, gases, oils and fuels. TASNIT® BA-203 covers the medium application loadings.

PROPERTIES AND APPLICATIONS

Gasket material with good resistance to water, gases, oils and fuels at medium loadings.

Composition	Aramid fibers, NBR
Approvals	Germanischer Lloyd, DVGW KTW, DVGW W270

SURFACE TREATMENT

Treatment with graphite, PTFE and anti-stick coating is available on request.

DIMENSIONS OF STANDARD SHEET

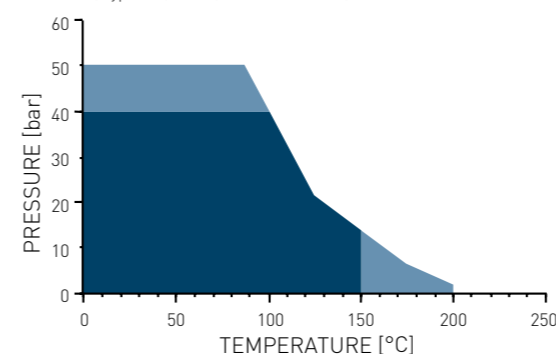
Sheet size (mm): 1000 x 1500 | 1500 x 1500 | 3000 x 1500 | 4500 x 1500
 Thickness (mm): 0.5 | 0.8 | 1.0 | 1.5 | 2.0 | 3.0
 Other dimensions and thicknesses on request.

TECHNICAL DATA Typical values for a thickness of 2 mm

Compressibility	ASTM F 36J	%	9
Recovery	ASTM F 36J	%	55
Tensile strength	DIN 52910	MPa	8
Stress resistance	DIN 52913		
16h, 175°C, 50MPa		MPa	25
Specific leak rate	DIN 3535-6	mg/(s•m)	0.08
Thickness increase	ASTM F 146		
Oil IRM 903, 5h, 150°C		%	10
ASTM Fuel B, 5h, 23°C		%	10
Max. operating conditions			
Peak temperature		°C/°F	250/482
Continuous temperature		°C/°F	200/392
- with steam		°C/°F	160/320
Pressure		bar/psi	50/725

P-T DIAGRAM

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



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- Limited application area. Technical consultation is mandatory.

The Pressure - Temperature charts are the most current method of determining the suitability of a gasket material in a known application. Maximum figures for temperature and pressure can be misleading. Max. temperature and max. pressure represent maximum values and should not be used simultaneously. They are given only for guidance, since this max. values depend not only on the type of gasket material but also on the assembly conditions. Use the pressure and temperature graphs to check suitability of chosen gasket material for your application (combination of pressure and temperature).



GASKET MATERIAL WITH GOOD MECHANICAL AND CHEMICAL PROPERTIES

TESNIT® BA-50 is a special gasket material based on aramid fibers and NBR rubber. Gasket material TESNIT® BA-50 has excellent chemical resistance and good dynamic resistance. Material has a wide general application. It is used in the gas, food and chemical industries.

PROPERTIES AND APPLICATIONS

Gasket material with good resistance to water, gases, fuels and oils at lower loadings.

Composition	Aramid fibers, NBR
Approvals	DIN-DVGW DIN 3535-6, DVGW KTW, DVGW W270, Germanischer Lloyd, TA-Luft (VDI 2440), TARC/MRPRA, WRAS/WQc,

SURFACE TREATMENT

Treatment with graphite, PTFE and anti-stick coating is available on request.

DIMENSIONS OF STANDARD SHEET

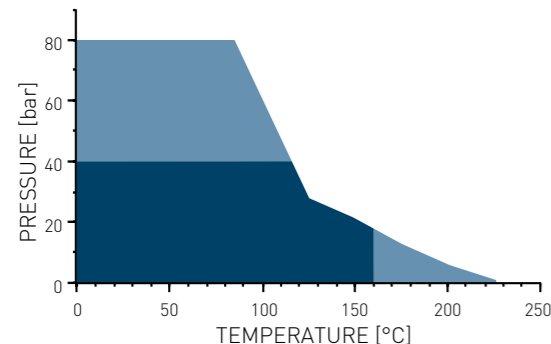
Sheet size (mm): 1000 x 1500 | 1500 x 1500 | 3000 x 1500 | 4500 x 1500
 Thickness (mm): 0.5 | 0.8 | 1.0 | 1.5 | 2.0 | 3.0
 Other dimensions and thicknesses on request.

TECHNICAL DATA Typical values for a thickness of 2 mm

Compressibility	ASTM F 36J	%	8
Recovery	ASTM F 36J	%	45
Tensile strength	DIN 52910	MPa	9
Stress resistance	DIN 52913		
16h, 300°C, 50MPa		MPa	20
16h, 175°C, 50MPa		MPa	25
Specific leak rate	DIN 3535-6	mg/(s•m)	0.08
Thickness increase	ASTM F 146		
Oil IRM 903, 5h, 150°C		%	10
ASTM Fuel B, 5h, 23°C		%	10
Max. operating conditions			
Peak temperature		°C/°F	280/536
Continuous temperature		°C/°F	220/428
- with steam		°C/°F	180/356
Pressure		bar/psi	80/1160

P-T DIAGRAM

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



- General suitability using common installation practices under the condition of chemical compatibility.
- Max. performance is ensured through appropriate measures for joint design and gasket installation. Consultation is recommended.
- Limited application area. Technical consultation is mandatory.

The Pressure - Temperature charts are the most current method of determining the suitability of a gasket material in a known application. Maximum figures for temperature and pressure can be misleading. Max. temperature and max. pressure represent maximum values and should not be used simultaneously. They are given only for guidance, since this max. values depend not only on the type of gasket material but also on the assembly conditions. Use the pressure and temperature graphs to check suitability of chosen gasket material for your application (combination of pressure and temperature).



GASKET MATERIAL WITH EXCELLENT THERMAL PROPERTIES AND GOOD STEAM RESISTANCE

TESNIT® BA-55 is a gasket material based on NBR rubber and special sythetic fibers, which makes it very suitable for the high thermal loadings. Material has an excellent thermal properties and very good steam resistance. TESNIT® BA-55 is a very suitable and economical solution for a wide range of applications including those with high temperature requirements.

PROPERTIES AND APPLICATIONS

Gasket material is excellent and economical solution for a wide range of applications.

Composition	Synthetic fibers, NBR
Approvals	BAM (Oxygen), DIN-DVGW DIN 3535-6, DVGW KTW, DVGW W270, DVGW VP 401, DVGW VP 401 (5 bar)

SURFACE TREATMENT

Treatment with graphite, PTFE and anti-stick coating is available on request.

DIMENSIONS OF STANDARD SHEET

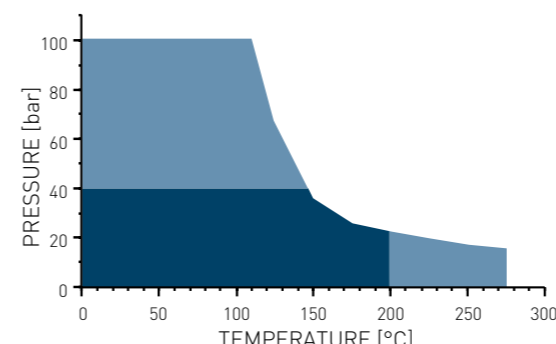
Sheet size (mm): 1000 x 1500 | 1500 x 1500 | 3000 x 1500 | 4500 x 1500
 Thickness (mm): 0.5 | 0.8 | 1.0 | 1.5 | 2.0 | 3.0
 Other dimensions and thicknesses on request.

TECHNICAL DATA Typical values for a thickness of 2 mm

Compressibility	ASTM F 36J	%	7.5
Recovery	ASTM F 36J	%	55
Tensile strength	DIN 52910	MPa	7
Stress resistance	DIN 52913		
16h, 300°C, 50MPa		MPa	30
16h, 175°C, 50MPa		MPa	35
Specific leak rate	DIN 3535-6	mg/(s•m)	0.05
Thickness increase	ASTM F 146		
Oil IRM 903, 5h, 150°C		%	7
ASTM Fuel B, 5h, 23°C		%	7
Max. operating conditions			
Peak temperature		°C/°F	350/662
Continuous temperature		°C/°F	270/518
- with steam		°C/°F	230/446
Pressure		bar/psi	100/1450

P-T DIAGRAM

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



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- Max. performance is ensured through appropriate measures for joint design and gasket installation. Consultation is recommended.
- Limited application area. Technical consultation is mandatory.

The Pressure - Temperature charts are the most current method of determining the suitability of a gasket material in a known application. Maximum figures for temperature and pressure can be misleading. Max. temperature and max. pressure represent maximum values and should not be used simultaneously. They are given only for guidance, since this max. values depend not only on the type of gasket material but also on the assembly conditions. Use the pressure and temperature graphs to check suitability of chosen gasket material for your application (combination of pressure and temperature).



GASKET MATERIAL WITH GOOD MECHANICAL, CHEMICAL AND THERMAL PROPERTIES

TESNIT® BA-U is a general application gasketing based on aramid fibers and high resistant NBR – nitrile butadiene rubber. Material has excellent chemical resistance, good mechanical and thermal properties. TASNIT® BA-U covers a great number of different approvals like: DVGW, KTW, WRc, BAM, HTB, SVGW and Germanischer Lloyd. It also complies with the requirements of BS 7531 Grade Y. TASNIT® BA-U has applications in many different industries: food, gas supply, portable water supply, compressors.

PROPERTIES AND APPLICATIONS

Excellent gasket material for general use with extremely wide application range.

Composition	Aramid fibers, NBR
Approvals	BAM (Oxygen), DVGW W270, DIN-DVGW DIN 3535-6, Germanischer Lloyd, DVGW VP 401, DVGW KTW, TA-Luft (VDI 2440), WRAS/WQc, Croatian Register of Shipping

SURFACE TREATMENT

Treatment with graphite, PTFE and anti-stick coating is available on request.

DIMENSIONS OF STANDARD SHEET

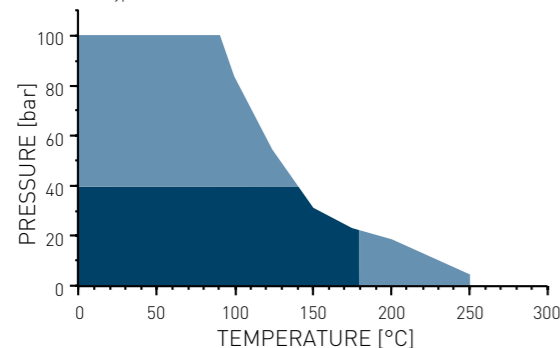
Sheet size (mm): 1000 x 1500 | 1500 x 1500 | 3000 x 1500 | 4500 x 1500
 Thickness (mm): 0.5 | 0.8 | 1.0 | 1.5 | 2.0 | 3.0
 Other dimensions and thicknesses on request.

TECHNICAL DATA Typical values for a thickness of 2 mm

Compressibility	ASTM F 36J	%	8
Recovery	ASTM F 36J	%	55
Tensile strength	DIN 52910	MPa	11
Stress resistance	DIN 52913		
16h, 300°C, 50MPa		MPa	22
16h, 175°C, 50MPa		MPa	28
Specific leak rate	DIN 3535-6	mg/(s•m)	0.05
Thickness increase	ASTM F 146		
Oil IRM 903, 5h, 150°C		%	5
ASTM Fuel B, 5h, 23°C		%	5
Max. operating conditions			
Peak temperature		°C/°F	350/662
Continuous temperature		°C/°F	250/482
- with steam		°C/°F	200/392
Pressure		bar/psi	100/1450

P-T DIAGRAM

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



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- Max. performance is ensured through appropriate measures for joint design and gasket installation. Consultation is recommended.
- Limited application area. Technical consultation is mandatory.

The Pressure - Temperature charts are the most current method of determining the suitability of a gasket material in a known application. Maximum figures for temperature and pressure can be misleading. Max. temperature and max. pressure represent maximum values and should not be used simultaneously. They are given only for guidance, since this max. values depend not only on the type of gasket material but also on the assembly conditions. Use the pressure and temperature graphs to check suitability of chosen gasket material for your application (combination of pressure and temperature).



GASKET MATERIAL WITH EXCELLENT TORQUE RETENTION, GOOD STEAM AND THERMAL RESISTANCE

TESNIT® BA-GL is an excellent soft gasketing material composed of selected synthetic fibers and bonded with NBR rubber. Material has superior torque retention and good steam resistance. It has excellent thermal resistance in combination with good gas sealability. Material is also suitable for use with water, oils, gases, fuels and many acids. TASNIT® BA-GL complies with the requirements of BS 7531 Grade X and covers a very wide application range.

PROPERTIES AND APPLICATIONS

Gasket material for sealing of very broad range of media at high temperatures.

Composition	Glass fibers, NBR
Approvals	DIN-DVGW DIN 3535-6, Germanischer Lloyd, DVGW VP 401, TA-Luft (VDI 2440),

SURFACE TREATMENT

Treatment with graphite, PTFE and anti-stick coating is available on request.

DIMENSIONS OF STANDARD SHEET

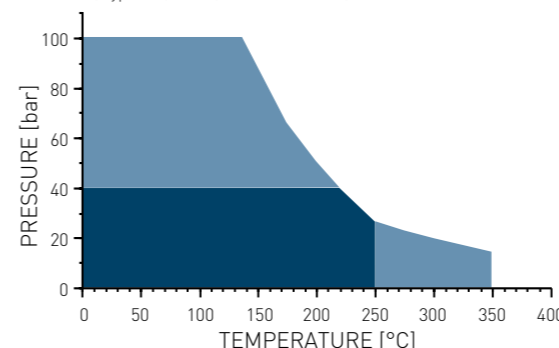
Sheet size (mm): 1000 x 1500 | 1500 x 1500 | 3000 x 1500 | 4500 x 1500
 Thickness (mm): 0.5 | 0.8 | 1.0 | 1.5 | 2.0 | 3.0
 Other dimensions and thicknesses on request.

TECHNICAL DATA Typical values for a thickness of 2 mm

Compressibility	ASTM F 36J	%	8
Recovery	ASTM F 36J	%	50
Tensile strength	DIN 52910	MPa	8
Stress resistance	DIN 52913		
16h, 300°C, 50MPa		MPa	30
16h, 175°C, 50MPa		MPa	35
Specific leak rate	DIN 3535-6	mg/(s•m)	0.08
Thickness increase	ASTM F 146		
Oil IRM 903, 5h, 150°C		%	8
ASTM Fuel B, 5h, 23°C		%	8
Max. operating conditions			
Peak temperature		°C/°F	440/824
Continuous temperature		°C/°F	350/662
- with steam		°C/°F	250/482
Pressure		bar/psi	100/1450

P-T DIAGRAM

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



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- Max. performance is ensured through appropriate measures for joint design and gasket installation. Consultation is recommended.
- Limited application area. Technical consultation is mandatory.

The Pressure - Temperature charts are the most current method of determining the suitability of a gasket material in a known application. Maximum figures for temperature and pressure can be misleading. Max. temperature and max. pressure represent maximum values and should not be used simultaneously. They are given only for guidance, since this max. values depend not only on the type of gasket material but also on the assembly conditions. Use the pressure and temperature graphs to check suitability of chosen gasket material for your application (combination of pressure and temperature).



GASKET MATERIAL WITH EXCELLENT RESISTANCE AGAINST STEAM AND STRONG ALKALIES

TESNIT® BA-CF is a high grade soft gasketing material based on carbon fibers and bonded with NBR rubber. Material has excellent resistance to steam and strong alkaline media. It is widely used in the chemical and petrochemical industries. Tesnit® BA-CF is approved by many institutions like: DVGW, KTW, WRc, BAM. Material also complies with the requirements of BS 7531 Grade X. Specially designed gasketing material TESNIT® BA-CF is an answer to the growing demands of many aggressive chemicals.

PROPERTIES AND APPLICATIONS

Gasket material for sealing of steam and very aggressive media in chemical and petrochemical industries.

Composition	Carbon fibers, NBR
Approvals	BAM (Oxygen), DIN-DVGW DIN 3535-6, DVGW VP 401, DVGW KTW, Germanischer Lloyd, Croatian Register of Shipping

SURFACE TREATMENT

Treatment with graphite, PTFE and anti-stick coating is available on request.

DIMENSIONS OF STANDARD SHEET

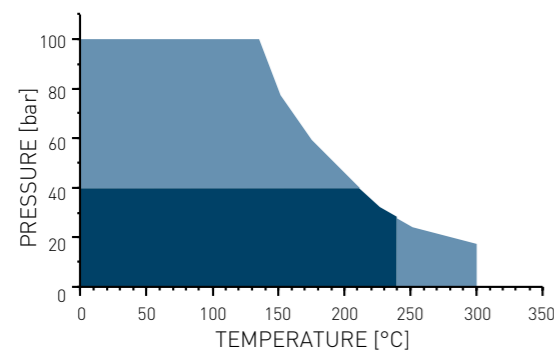
Sheet size (mm): 1000 x 1500 | 1500 x 1500 | 3000 x 1500 | 4500 x 1500
 Thickness (mm): 0.5 | 0.8 | 1.0 | 1.5 | 2.0 | 3.0
 Other dimensions and thicknesses on request.

TECHNICAL DATA Typical values for a thickness of 2 mm

Compressibility	ASTM F 36J	%	9
Recovery	ASTM F 36J	%	55
Tensile strength	DIN 52910	MPa	8
Stress resistance	DIN 52913		
16h, 300°C, 50MPa		MPa	25
16h, 175°C, 50MPa		MPa	30
Specific leak rate	DIN 3535-6	mg/(s•m)	0.05
Thickness increase	ASTM F 146		
Oil IRM 903, 5h, 150°C		%	7
Max. operating conditions			
Peak temperature		°C/°F	400/752
Continuous temperature		°C/°F	300/572
- with steam		°C/°F	280/536
Pressure		bar/psi	100/1450

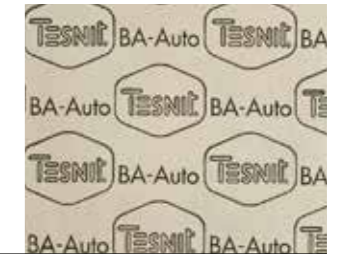
P-T DIAGRAM

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



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- Limited application area. Technical consultation is mandatory.

The Pressure - Temperature charts are the most current method of determining the suitability of a gasket material in a known application. Maximum figures for temperature and pressure can be misleading. Max. temperature and max. pressure represent maximum values and should not be used simultaneously. They are given only for guidance, since this max. values depend not only on the type of gasket material but also on the assembly conditions. Use the pressure and temperature graphs to check suitability of chosen gasket material for your application (combination of pressure and temperature).



GASKET MATERIAL WITH CONTROLLED SWELL PROPERTIES

TESNIT® BA-Auto is soft gasketing material with controlled swell properties. It is a sealing material based on aramid fibers and selected rubbers. It is specially designed for sealing at low surface stress on rough or uneven sealing flanges. The controlled swelling of gasket material in such cases compensates for the loss of specific surface pressure in the application. TESNIT® BA-Auto is widely used in the automotive industry.

PROPERTIES AND APPLICATIONS

Gasket material for sealing at low surface stresses in automotive and chemical industry.

Composition	Aramid fibers, SBR
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SURFACE TREATMENT

Treatment with graphite, PTFE and anti-stick coating is available on request.

DIMENSIONS OF STANDARD SHEET

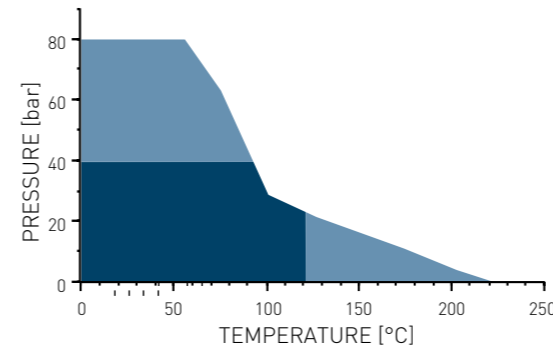
Sheet size (mm): 1000 x 1500 | 1500 x 1500 | 3000 x 1500 | 4500 x 1500
 Thickness (mm): 0.5 | 0.8 | 1.0 | 1.5 | 2.0 | 3.0
 Other dimensions and thicknesses on request.

TECHNICAL DATA Typical values for a thickness of 2 mm

Compressibility	ASTM F 36J	%	9
Recovery	ASTM F 36J	%	50
Tensile strength	DIN 52910	MPa	10
Stress resistance	DIN 52913		
16h, 175°C, 50MPa		MPa	25
Specific leak rate	DIN 3535-6	mg/(s•m)	0.06
Thickness increase	ASTM F 146		
Oil IRM 903, 5h, 150°C		%	40
ASTM Fuel B, 5h, 23°C		%	25
Max. operating conditions			
Peak temperature		°C/°F	280/536
Continuous temperature		°C/°F	220/428
Pressure		bar/psi	80/1160

P-T DIAGRAM

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



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GASKET MATERIAL WITH EXTREMELY GOOD RESISTANCE TO COOLING MEDIA

TESNIT® BA-N consists of aramid fibers and chloroprene rubber, so the material is especially suitable for different media in the refrigeration industry. TASNIT® BA-N also has excellent mechanical properties and thermal resistance combined with good chemical resistance which makes the gasket material very suitable for a range of general applications.

PROPERTIES AND APPLICATIONS

Gasket material for sealing of different applications in the refrigeration industry.

Composition	Aramid fibers, CR
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SURFACE TREATMENT

Treatment with graphite, PTFE and anti-stick coating is available on request.

DIMENSIONS OF STANDARD SHEET

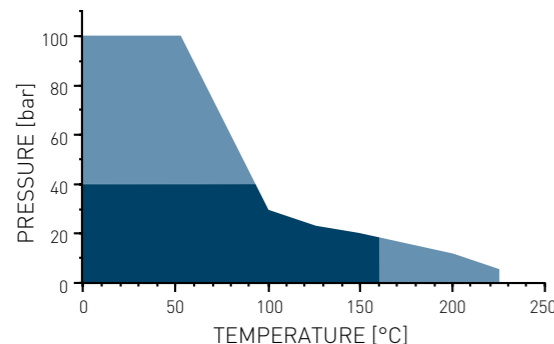
Sheet size (mm): 1000 x 1500 | 1500 x 1500 | 3000 x 1500 | 4500 x 1500
 Thickness (mm): 0.5 | 0.8 | 1.0 | 1.5 | 2.0 | 3.0
 Other dimensions and thicknesses on request.

TECHNICAL DATA Typical values for a thickness of 2 mm

Compressibility	ASTM F 36J	%	8
Recovery	ASTM F 36J	%	55
Tensile strength	DIN 52910	MPa	11
Stress resistance	DIN 52913		
16h, 300°C, 50MPa		MPa	22
16h, 175°C, 50MPa		MPa	28
Specific leak rate	DIN 3535-6	mg/(s•m)	0.05
Thickness increase	ASTM F 146		
Oil IRM 903, 5h, 150°C		%	8
ASTM Fuel B, 5h, 23°C		%	8
Max. operating conditions			
Peak temperature		°C/°F	350/662
Continuous temperature		°C/°F	270/518
- with steam		°C/°F	200/392
Pressure		bar/psi	100/1450

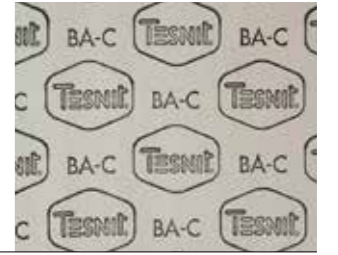
P-T DIAGRAM

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



- General suitability using common installation practices under the condition of chemical compatibility.
- Max. performance is ensured through appropriate measures for joint design and gasket installation. Consultation is recommended.
- Limited application area. Technical consultation is mandatory.

The Pressure - Temperature charts are the most current method of determining the suitability of a gasket material in a known application. Maximum figures for temperature and pressure can be misleading. Max. temperature and max. pressure represent maximum values and should not be used simultaneously. They are given only for guidance, since this max. values depend not only on the type of gasket material but also on the assembly conditions. Use the pressure and temperature graphs to check suitability of chosen gasket material for your application (combination of pressure and temperature).



GASKET MATERIAL WITH VERY GOOD RESISTANCE TO ACIDS AND ALKALINE MEDIA

TESNIT® BA-C is specially developed soft gasketing material for the chemical industry. It is a sealing material based on aramid fibers and CSM rubber. The material has very good resistance to acids and alkalis, and is also very convenient to use with different aggressive media. TASNIT® BA-C is a suitable application in all places where chemical resistance is the most important factor.

PROPERTIES AND APPLICATIONS

Gasket material for sealing of extremely aggressive media in many industries.

Composition	Aramid fibers, CSM
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Approvals	TA-Luft (VDI 2440)
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SURFACE TREATMENT

Treatment with graphite, PTFE and anti-stick coating is available on request.

DIMENSIONS OF STANDARD SHEET

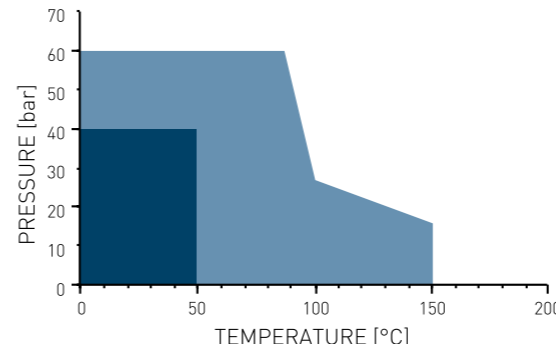
Sheet size (mm): 1000 x 1500 | 1500 x 1500 | 3000 x 1500 | 4500 x 1500
 Thickness (mm): 0.5 | 0.8 | 1.0 | 1.5 | 2.0 | 3.0
 Other dimensions and thicknesses on request.

TECHNICAL DATA Typical values for a thickness of 2 mm

Compressibility	ASTM F 36J	%	8
Recovery	ASTM F 36J	%	45
Tensile strength	DIN 52910	MPa	10
Stress resistance	DIN 52913		
16h, 175°C, 50MPa		MPa	25
Specific leak rate	DIN 3535-6	mg/(s•m)	0.06
Thickness increase	ASTM F 146		
HNO ₃ 40%, 18h, 23°C		%	10
H ₂ SO ₄ 65%, 48h, 23°C		%	8
Max. operating conditions			
Peak temperature		°C/°F	200/392
Continuous temperature		°C/°F	150/302
Pressure		bar/psi	60/870

P-T DIAGRAM

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



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- Max. performance is ensured through appropriate measures for joint design and gasket installation. Consultation is recommended.
- Limited application area. Technical consultation is mandatory.

The Pressure - Temperature charts are the most current method of determining the suitability of a gasket material in a known application. Maximum figures for temperature and pressure can be misleading. Max. temperature and max. pressure represent maximum values and should not be used simultaneously. They are given only for guidance, since this max. values depend not only on the type of gasket material but also on the assembly conditions. Use the pressure and temperature graphs to check suitability of chosen gasket material for your application (combination of pressure and temperature).



WIRE REINFORCED GASKET MATERIAL WITH GREAT STRENGTH

TESNIT® BA-R is an aramid fiber and NBR rubber based soft gasketing material, in combination with special wire reinforcement. The material has excellent mechanical, dynamic and thermal resistance. TESNIT® BA-R is used in many applications in the automotive and petrochemical industries and shipyards. TESNIT® BA-R has also excellent blow-out safety.

PROPERTIES AND APPLICATIONS

Special gasket material for applications where resistance to the high dynamic loadings is the premium requirement.

Composition	Aramid fibers, NBR, wire reinforced
Approvals	Germanischer Lloyd, Croatian Register of Shipping

SURFACE TREATMENT

Treatment with graphite, PTFE and anti-stick coating is available on request.

DIMENSIONS OF STANDARD SHEET

Sheet size (mm): 1000x1500 | 1500x1500
 Thickness (mm): 0.5 | 0.8 | 1.0 | 1.5 | 2.0 | 3.0
 Other dimensions and thicknesses on request.

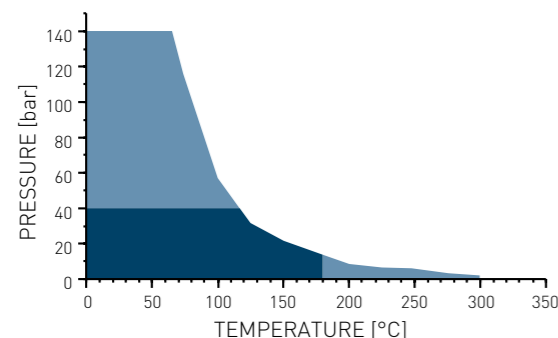
TECHNICAL DATA

Typical values for a thickness of 2 mm

Compressibility	ASTM F 36J	%	7
Recovery	ASTM F 36J	%	50
Tensile strength	DIN 52910	MPa	15
Stress resistance	DIN 52913		
16h, 300°C, 50MPa		MPa	30
16h, 175°C, 50MPa		MPa	35
Thickness increase	ASTM F 146		
Oil IRM 903, 5h, 150°C		%	8
Max. operating conditions			
Peak temperature		°C/°F	400/752
Continuous temperature		°C/°F	350/662
- with steam		°C/°F	230/446
Pressure		bar/psi	140/2030

P-T DIAGRAM

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



- General suitability using common installation practices under the condition of chemical compatibility.
- Max. performance is ensured through appropriate measures for joint design and gasket installation. Consultation is recommended.
- Limited application area. Technical consultation is mandatory.

The Pressure - Temperature charts are the most current method of determining the suitability of a gasket material in a known application. Maximum figures for temperature and pressure can be misleading. Max. temperature and max. pressure represent maximum values and should not be used simultaneously. They are given only for guidance, since this max. values depend not only on the type of gasket material but also on the assembly conditions. Use the pressure and temperature graphs to check suitability of chosen gasket material for your application (combination of pressure and temperature).



GASKET MATERIAL WITH EXCELLENT DYNAMIC AND THERMAL PROPERTIES

TESNIT® BAR-300 is a specially designed gasket material composed of inorganic fibers, NBR rubber and extremely strong wire mesh. Material has extreme dynamic and thermal resistance and finds application in automotive, petrochemical industry and shipyards. One of many options is the incorporation of an inner metal ring, which also increases the final application parameters.

PROPERTIES AND APPLICATIONS

Special gasket material for extreme dynamic conditions in the automotive industry, petrochemical industry and shipyards.

Composition	Inorganic, NBR, wire reinforcement
Approvals	Germanischer Lloyd, Croatian Register of Shipping

SURFACE TREATMENT

Treatment with graphite, PTFE and anti-stick coating is available on request.

DIMENSIONS OF STANDARD SHEET

Sheet size (mm): 1000x1400 | 500x1400
 Thickness (mm): 0.6 | 0.7 | 1.2 | 1.4 | 1.6
 Other dimensions and thicknesses on request.

TECHNICAL DATA

Typical values for a thickness of 2 mm

Compressibility	ASTM F 36J	%	8
Recovery	ASTM F 36J	%	40
Stress resistance	DIN 52913		
16h, 300°C, 50MPa		MPa	40
Thickness increase	ASTM F 146		
Oil IRM 903, 5h, 150°C		%	5
Max. operating conditions			
Peak temperature		°C/°F	550/1022
Continuous temperature		°C/°F	450/842

