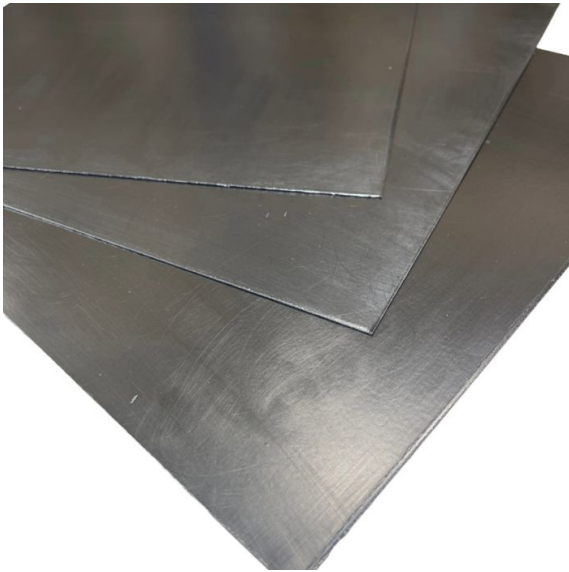




Premium Carbon Fibre Compressed Fibre 750mm Length X 500mm Width X 0.5mm Thick

Product SKU:	CP400L750W500T0.5
Material:	Carbon/NBR Compressed Fibre
Colour:	Black
Length:	750mm
Width:	500mm
Thickness:	0.5mm
Weight:	0.3375kg
Max Temperature:	400°C

Experience the exceptional sealing capabilities of CP400, engineered from a premium blend of carbon fibres and NBR binder, ideal for high-demand applications in the chemical and petrochemical industries. With impressive temperature and pressure resistance, along with customisable sizes, CP400 ensures reliable performance across a variety of industrial sealing needs.

Approvals and compliances:

BAM (oxygen), BS 7531 Grade X, DNV, DVGW DIN 30653 HTB (5bar), DVGW DIN 3535-6

Key Features:

Premium Carbon Fibre Composition – Manufactured from carbon fibres, inorganic fillers, and an NBR binder for reliable sealing performance.

High Temperature Resistance – Suitable for continuous temperatures up to 300°C and peak temperatures up to 400°C.

High Pressure Capability – Withstands pressures up to 120 bar, making it ideal for demanding industrial applications.

Excellent Sealing Performance – Low leak rate, high recovery, and excellent residual stress resistance for dependable sealing.

Industry Approved – Certified to BAM (Oxygen), BS 7531 Grade X, DNV GL, and DVGW standards.

Optional Wire Mesh Reinforcement – Carbon steel wire mesh insert available for increased mechanical strength.

Multiple Sheet Sizes & Thicknesses – Available in standard and custom dimensions to suit a wide range of applications.

Although the technical details and recommendations made correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use Polymax products must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.
All sales subject to our standard terms www.polymax.co.uk/sales-terms

Applications:

Sealing solutions in the chemical industry

Petrochemical processing environments

High-temperature and high-pressure applications

General industrial sealing needs where reliability is paramount

Use as a gasket material in various mechanical settings

Technical Data:

Density	DIN 28090-2	g/cm ³	1.8
Compressibility	ASTM F36J	%	9
Recovery	ASTM F36J	%	62
Tensile strength	ASTM F152	MPa	12
Residual stress	DIN 52913		
50 MPa, 175°C, 16 h		MPa	37
50 MPa, 300°C, 16 h		MPa	30
Specific leak rate	DIN 3535-6	mg/(s·m)	0.04
Thickness increase	ASTM F146		
Oil IRM 903, 150°C, 5 h		%	2
ASTM Fuel B, 23°C, 5 h		%	4
Compression modulus	DIN 28090-2		
Creep relaxation at room temperature		%	6.3
Creep relaxation at an elevated temperature of 200°C		%	7.6
Creep relaxation	DIN 28090-2		
Creep relaxation at room temperature		%	3.0
Creep relaxation at an elevated temperature of 200°C		%	2.5

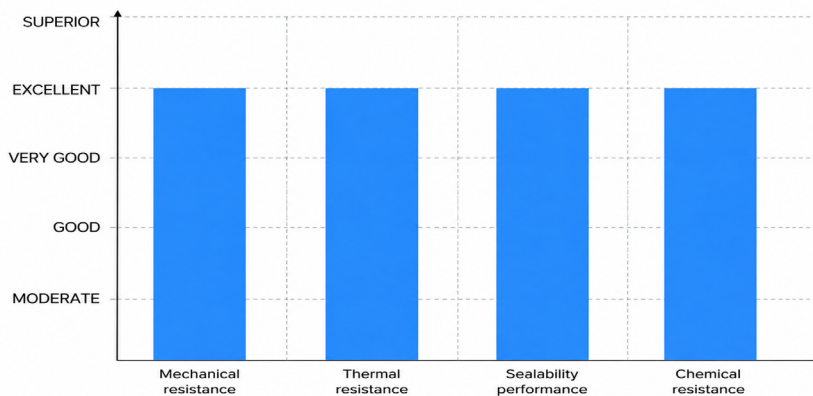
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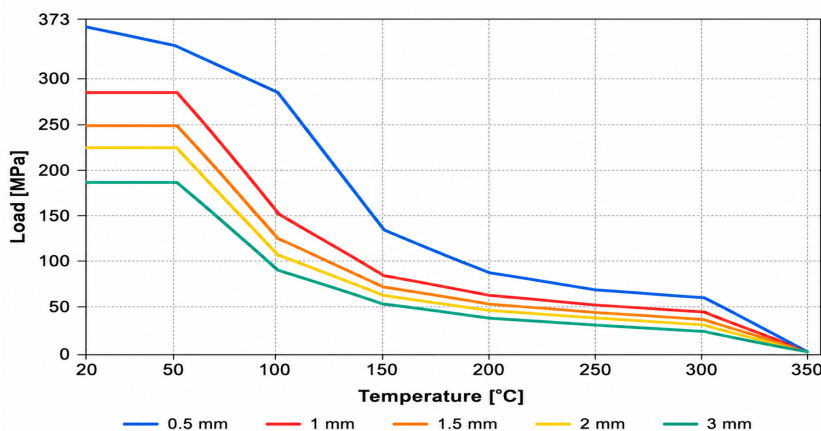
Technical Data:

Maximum operating conditions			
Peak temperature		°C/°F	400/752
Continuous temperature		°C/°F	300/572
Continuous temperature with steam		°C/°F	280/536
Pressure		bar/psi	120/1740

Properties:



Maximum Gasket Stress Diagram:

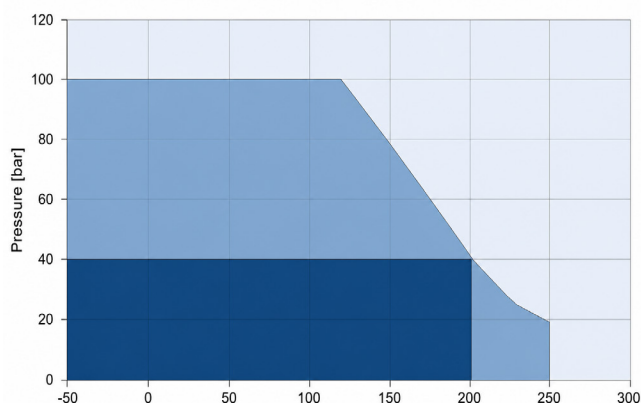


Maximum Gasket Stress Diagram represent Maximum gasket stress values for different gasket material thicknesses. These values indicate the maximum in-service compressive pressures which can be applied on the gasket area involved without destructing or damaging the gasket material.

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

Steam or gasses:



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.