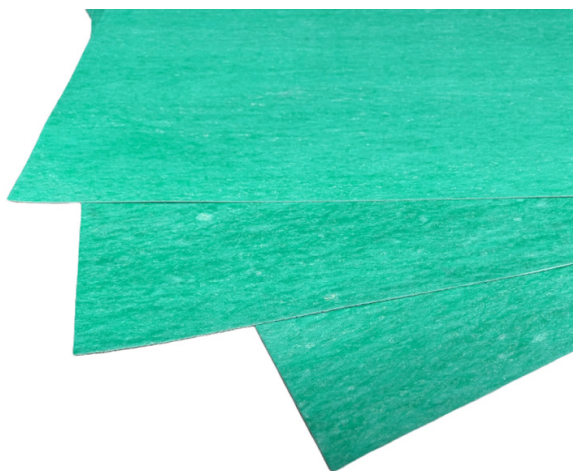




Premium Quality Compressed Fibre 750mm Length X 500mm Width X 0.5mm Thick

Product SKU:	CP440L750W500T0.5
Material:	Glass/Aramid Compressed Fibre
Colour:	Green
Length:	750mm
Width:	500mm
Thickness:	0.5mm
Weight:	0.3375kg
Max Temperature:	440°C

The CP440 gasket material combines glass and aramid fibres with an NBR binder, offering exceptional strength and durability while withstanding temperatures up to 440°C (824°F). Available in various sizes and thicknesses, it is ideal for demanding applications such as gas and steam supply systems, heating systems, and industrial machinery.

Approvals:

ABS, API 607, BAM (oxygen), BS 7531 Grade X, DNV, DVGW DIN 30653 HTB (1bar), DVGW DIN 3535-6, EC 1935/2004, ISO 10497, WRAS

Key Features:

High-Strength Composition – Made from glass and aramid fibres, inorganic fillers, and an NBR binder.

High Temperature & Pressure Resistance – Suitable up to 440°C peak temperature, 350°C continuous temperature, and 120 bar pressure.

Reliable Sealing Performance – Offers low leakage, good recovery, and strong residual stress resistance.

Industry Approved – Complies with ABS, BAM, BS 7531 Grade X, DNV GL, DVGW, DIN EN 16421, and EC 1935/2004.

Flexible Size Options – Available in standard and custom sheet sizes with thicknesses from 0.5 to 3.0 mm.

Suitable for Steam Applications – Performs reliably in steam temperatures up to 250°C.

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:

Gas and steam supply systems

Heating systems

Machinery such as pumps and compressors

High-temperature sealing environments

Industrial processes requiring reliable and durable gasket solutions

Technical Data:

Density	DIN 28090-2	g/cm ³	1.8
Compressibility	ASTM F36J	%	7
Recovery	ASTM F36J	%	55
Tensile strength	ASTM F152	MPa	11
Residual stress	DIN 52913		
50 MPa, 175°C, 16 h		MPa	38
50 MPa, 300°C, 16 h		MPa	33
Specific leak rate	DIN 3535-6	mg/(s·m)	0.03
Thickness increase	ASTM F146		
Oil IRM 903, 150°C, 5 h		%	3
ASTM Fuel B, 23°C, 5 h		%	5
Compression modulus	DIN 28090-2		
Creep relaxation at room temperature		%	6.9
Creep relaxation at an elevated temperature of 200°C		%	7.9
Creep relaxation	DIN 28090-2		
Creep relaxation at room temperature		%	3.3
Creep relaxation at an elevated temperature of 200°C		%	1.2

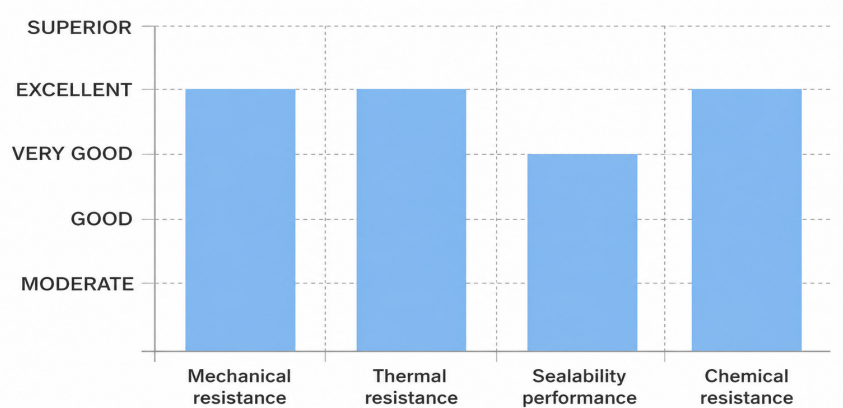
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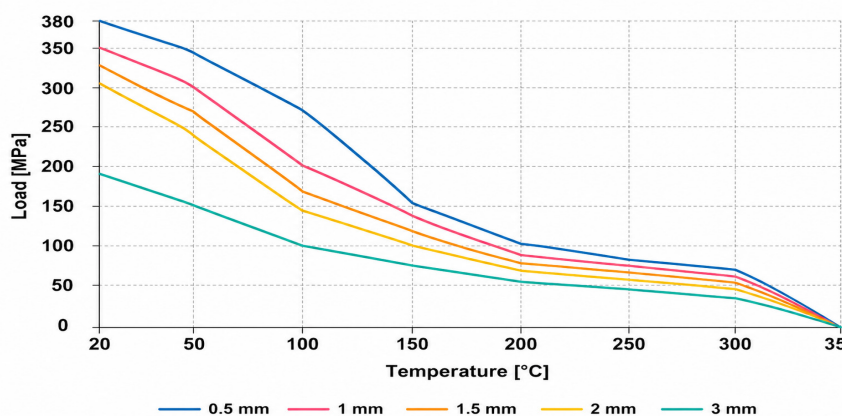
Technical Data:

Maximum operating conditions			
Peak temperature		°C/°F	440/824
Continuous temperature		°C/°F	350/662
Continuous temperature with steam		°C/°F	250/482
Pressure		bar/psi	120/1740
Leachable Chloride	FSA NMG 202	ppm	<100*

Properties:



Maximum Gasket Stress Diagram:

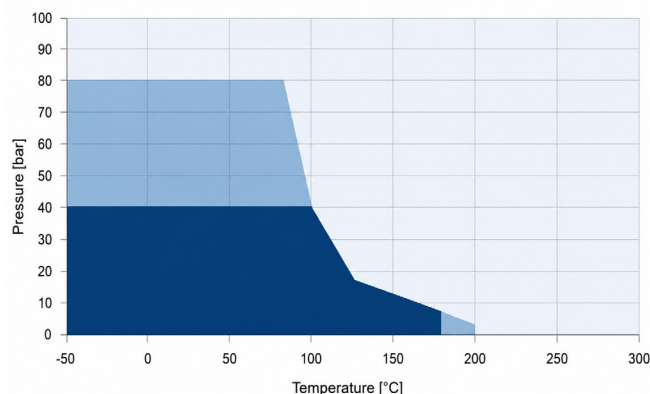


Maximum gasket stress diagrams represent Maximum gasket stress values for different gasket material thicknesses. These values indicate the maximum in-service compressive pressures which can be applied on the gasket area involved without destructing or damaging the gasket material.

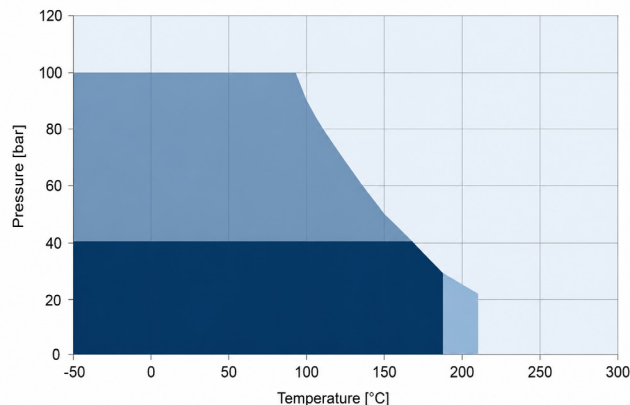
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P-T DIAGRAMS EN 1514-1, Type IBC, PN 40, DIN 28091-2 / 3.8, 2 mm

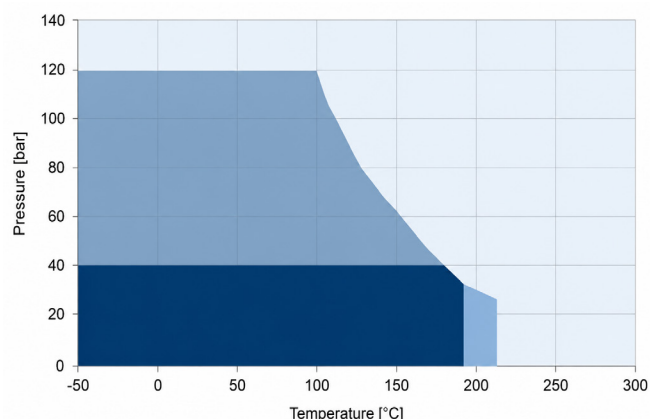
Aggressive Gasses:



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.