POLYMAX®
Leaders in rubber technology

Unit 75, Whitehill & Bordon Enterprise Park
Budds Lane, Bordon, Hampshire GU35 0FJ
Email: sales@polymax.co.uk Tel: +44 (0)1420 474 123

High Quality General Purpose Compressed Fibre 750mm Length X 500mm Width X 1.5mm Thick

Product SKU:	CP350L750W500T1.5
Material:	Aramid/NBR Compressed Fibre
Colour:	Blue
Length:	750mm
Width:	500mm
Thickness:	1.5mm
Weight:	0.95625kg
Max Temperature:	350°C

Polymax CP350 is a high-performance gasket material made from a blend of aramid fibres and NBR binder, offering exceptional durability and temperature resistance up to 350°C. Compliant with various industry standards, it is ideal for sealing in applications such as gas supply systems, potable water, and steam systems.

Key Features:
High Performance: Excels in critical sealing applications with outstanding physical properties.

Versatile Thickness Options: Available in multiple thicknesses to meet diverse application requirements.

Exceptional Durability: Features excellent tensile strength of 12 MPa and a compressibility of 11%, ensuring a tight seal under pressure.

Temperature Resistance: Withstands peak temperatures up to 350°C (662°F) and continuous temperatures of 250°C (482°F), making it ideal for high-heat environments.

Pressure Capability: Rated for maximum pressures of up to 100 bar (1450 psi), suitable for various industrial applications.

Reliable Performance: Good dimensional stability and creep relaxation properties ensure effective sealing over time.

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.
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Applications:
Gas Supply Systems: Perfect for sealing in gas pipelines, ensuring safe and reliable operation.

Potable Water Applications: Complies with health standards suitable for use in drinking water systems.

Steam Systems: Effective in high-temperature steam applications up to 200°C (392°F).

General-Purpose Sealing: Versatile enough for various sealing tasks across multiple industries, from automotive to manufacturing.

Technical Data:

Density	DIN 28090-2	g/cm³	1.7
Compressibility	ASTM F36J	%	11
Recovery	ASTM F36J	%	60
Tensile strength	ASTM F152	MPa	12
Residual stress	DIN 52913		
50 MPa, 175°C, 16 h		MPa	27
50 MPa, 300°C, 16 h		MPa	23
Specific leak rate	DIN 3535-6	mg/(s·m)	0.02
Thickness increase	ASTM F146		
Oil IRM 903, 150°C, 5 h		%	2
ASTM Fuel B, 23°C, 5 h		%	5
Compression modulus	DIN 28090-2		
Creep relaxation at room temperature		%	9.5
Creep relaxation at an elevated temperature of 200°C		%	16.1
Creep relaxation	DIN 28090-2		
Creep relaxation at room temperature		%	4.7
Creep relaxation at an elevated temperature of 200°C		%	0.8

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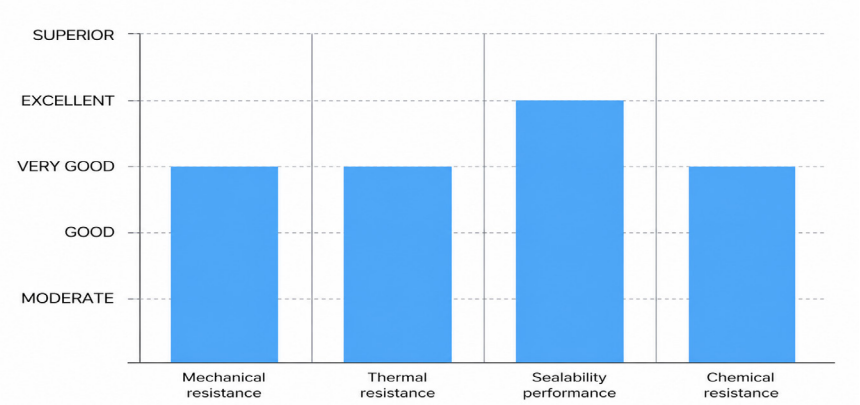
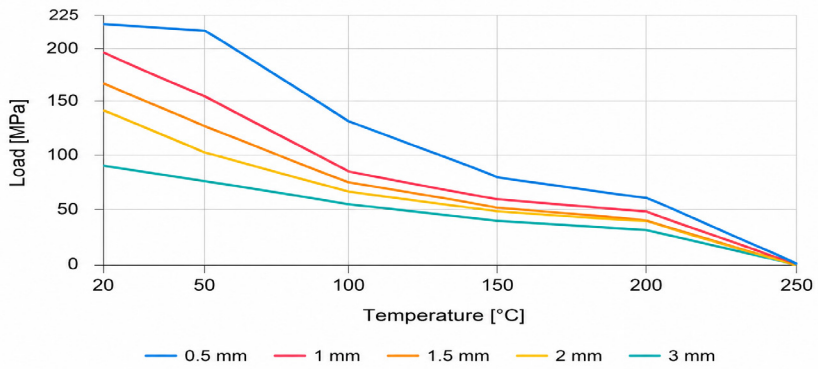
Technical Data:

Maximum operating conditions			
Peak temperature		°C/°F	350/662
Continuous temperature		°C/°F	250/482
Continuous temperature with steam		°C/°F	200/392
Pressure		bar/psi	100/1450

Properties:



Maximum Gasket Stress Diagram:



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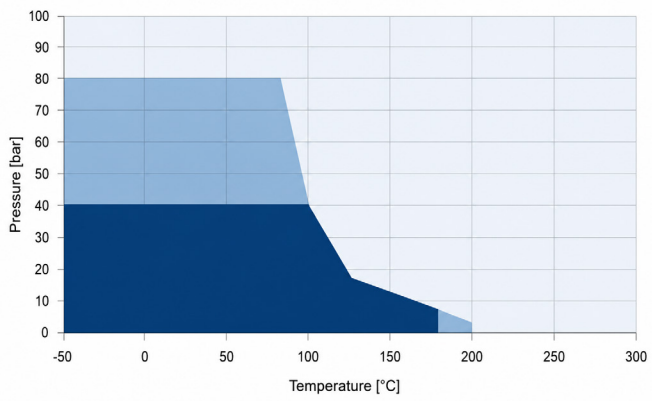
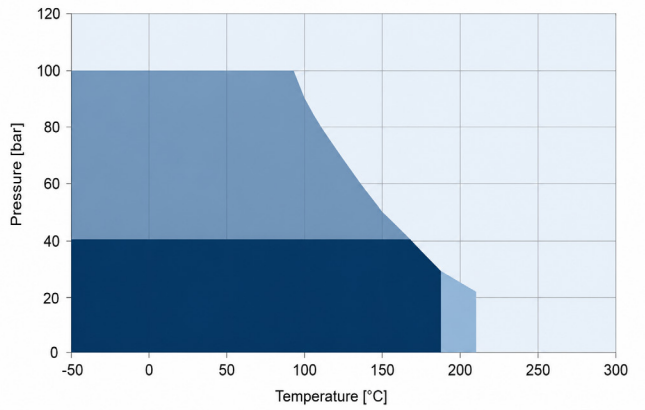
P-T DIAGRAMS EN 1514-1, Type IBC, PN 40, DIN 28091-2 / 3.8, 2 mm

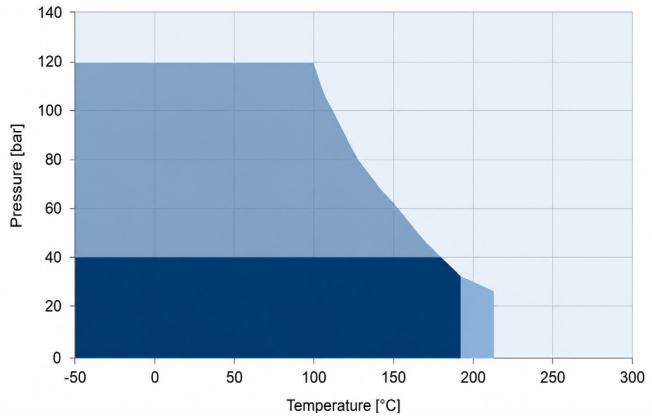
Agreesive Gasses:



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.

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