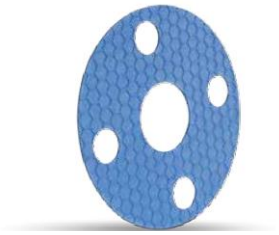
Garlock
an EnPro Industries family of companies

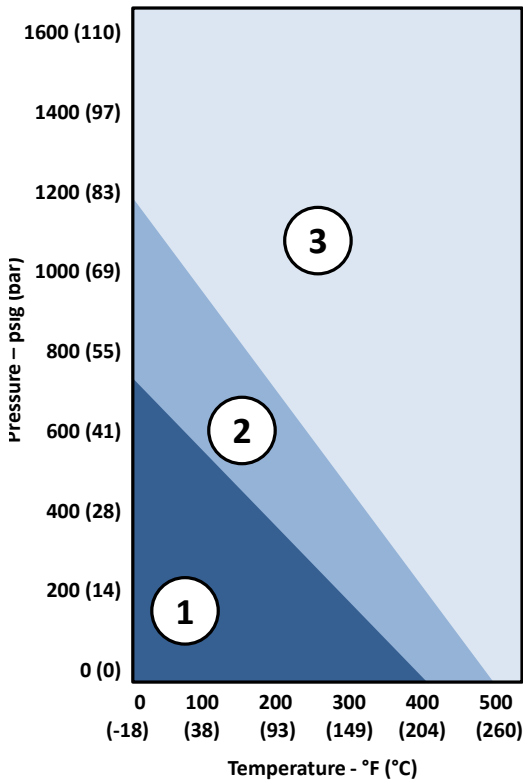


GYLON EPIX™ Style 3504 EPX

MATERIAL PROPERTIES

Color:	Blue
Composition:	PTFE with aluminosilicate microspheres
Fluid Service (see chemical resistance guide):	Moderate concentrations of acids, some caustics, hydrocarbons, solvents, hydrogen peroxide, refrigerants & cryogenics
Temperature	
Minimum:	-450°F (-268°C)
Ideal Operating Limit:	400°F (204°C)
Maximum:	500°F (260°C) see chart→
Pressure	
Ideal Operating Limit:	750 psig (52 bar)
Maximum:	1200 psig (83 bar) see chart→
Bacterial Growth:	Will Not Support
Specifications:	FDA, USP <87> <88> <661>, TA Luft Approved, REACH / RoHS Compliant

TEMPERATURE & PRESSURE RATING



LEGEND:

1 - Suitable for use if chemically compatible and installed using Garlock's recommended installation practices and assembly stresses.

2 - Please consult Garlock Applications Engineering to confirm the suitability with your service conditions.

3 - Generally not suitable – please consult Garlock Applications Engineering to confirm the suitability with your service conditions.

TYPICAL PHYSICAL PROPERTIES

ASTM F36L	Compressibility (average):	52%
ASTM F36L	Recovery:	25%
ASTM D1708	Tensile (across grain):	2,000 psi (13.8 MPa)
DIN 52913	Load Retention	
	16 hrs @ 500°F (260°) 7,250 psi (50MPa) gasket stress	50%

DESIGN & PERFORMANCE VALUES

ASTM F3149	Design Factors	
	"m" factor:	2.5
	"y" factor:	2,000 psi (13.8 MPa)
ASTM ROTT	Gasket Constants	
	Gb:	76 psi
	a:	0.508
	Gs:	13.6 psi
ASTM HOBT2	Hot Blowout with thermal cycles	
	Rating at 435 psig:	432°F (222°C)

SEALING CHARACTERISTICS

ASTM F37B	Sealability (0.2" ID x 1.20" OD test gasket size)	
	Fuel A – 9.8 psig, 1,000 psi gasket stress:	0.2 ml/hr
	Nitrogen – 30 psig, 3,000 psi gasket stress:	0.15 ml/hr
DIN 3535	Gas Permeability	
	Part 6 – 580 psig (40 bar), 4,640 psi (32 MPa) gasket stress:	0.0005 mg/m*s
	Part 4 – 580 psig (40 bar), 4,640 psi (32 MPa) gasket stress:	<0.006 cc/min

GARLOCK
an EnPro Industries family of companies
1666 Division Street
Palmyra, NY 14522

Tel: 1-877-GARLOCK / 315.597.4811
Fax: 800.543.0598 / 315.597.3216
www.garlock.com

Garlock
an EnPro Industries family of companies

Garlock
an EnPro Industries family of companies

EN 13555 CHARACTERISTICS

		Test Method	units	GYLON® EPIX Style 3504 EPX
Maximum Tolerated Assembly Stress (Qsmax) In accordance to DIN EN 13555	68°F (20°C)	EN 13555	psi (MPa)	29,000 (200)
	212°F (100°C)	EN 13555	psi (MPa)	17,400 (120)
	302°F (150°C)	EN 13555	psi (MPa)	14,500 (100)
	392°F (200°C)	EN 13555	psi (MPa)	11,600 (80)
	482°F (250°C)	EN 13555	psi (MPa)	8,700 (60)
Minimum Stress (Qmin) needed to reach 0.01 [mg/(s*m)]	150-600 psig (10-40 bar)	EN 13555	psi (MPa)	725 (5)
	1,160 psig (80 bar)	EN 13555	psi (MPa)	1,450 (10)
Maximum Sealability Class at 68°F (20°C) at 2,900 psi (20 MPa) Assembly stress	145-290 psig (10-20 bar)	EN 13555	L[mg/(s*m)]	$1.0x10^{-4}$
	580-1,160 psig (40-80 bar)	EN 13555	L[mg/(s*m)]	$1.0x10^{-3}$
Maximum Sealability Class at 68°F (20°C) at 23,200 psi (160 Mpa) assembly stress	580 psig (40 bar)	EN 13555	L[mg/(s*m)]	$1.0x10^{-5}$

Initial & Residual Assembly Stress required to achieve sealability of 0.01 [mg/(s*m)] (In accordance with DIN EN 13555 test method)		
Corresponding Pressure	Initial Assembly Stress (QA)	Residual Assembly Stress
150 psig (10 bar)	1,450 psi (10 Mpa)	435 psi (3 MPa)
300 psig (20 bar)	1,450 psi (10 Mpa)	580 psi (4 MPa)
600 psig (40 bar)	1,450 psi (10 Mpa)	725 psi (5 MPa)
1,160 psig (80 bar)	2,900 psi (20 Mpa)	1,450 psi (10 MPa)

Data in accordance to DIN EN 13555 for calculations to be done in accordance to DIN EN 1591-1
Data can be used for ASME PCC-1:2013 including Appendix "I" or Appendix "O".
Please contact Garlock Engineering if gasket cross-section (width) is less than 0.5" (12.7mm).

Rev. Feb 2018

GARLOCK
an EnPro Industries family of companies
1666 Division Street
Palmyra, NY 14522

Tel: 1-877-GARLOCK / 315.597.4811
Fax: 800.543.0598 / 315.597.3216
www.garlock.com

Garlock
an EnPro Industries family of companies