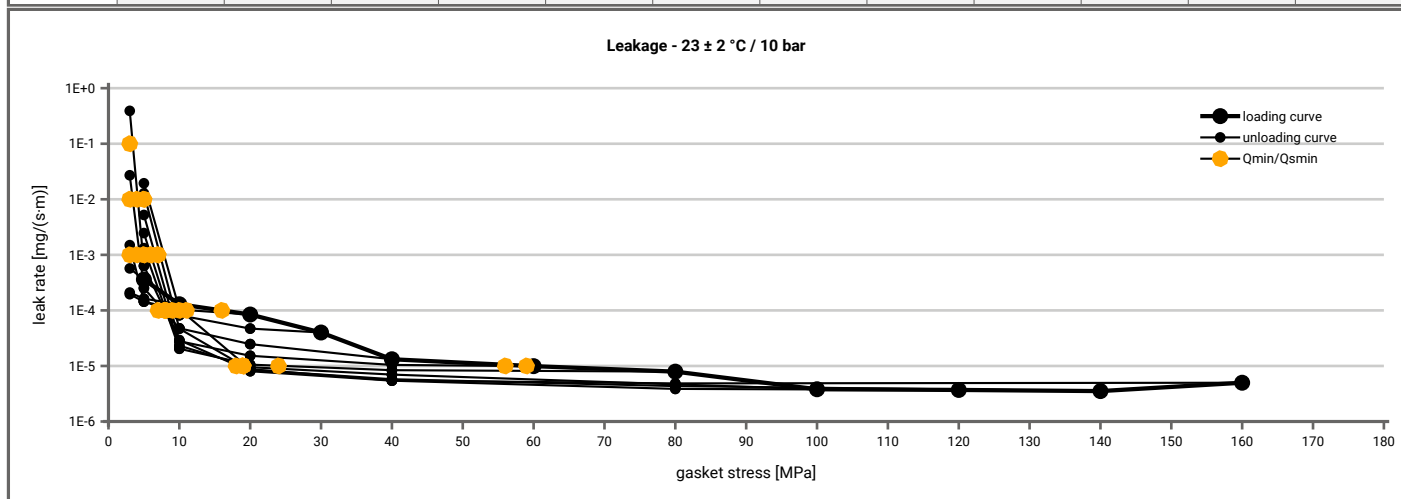
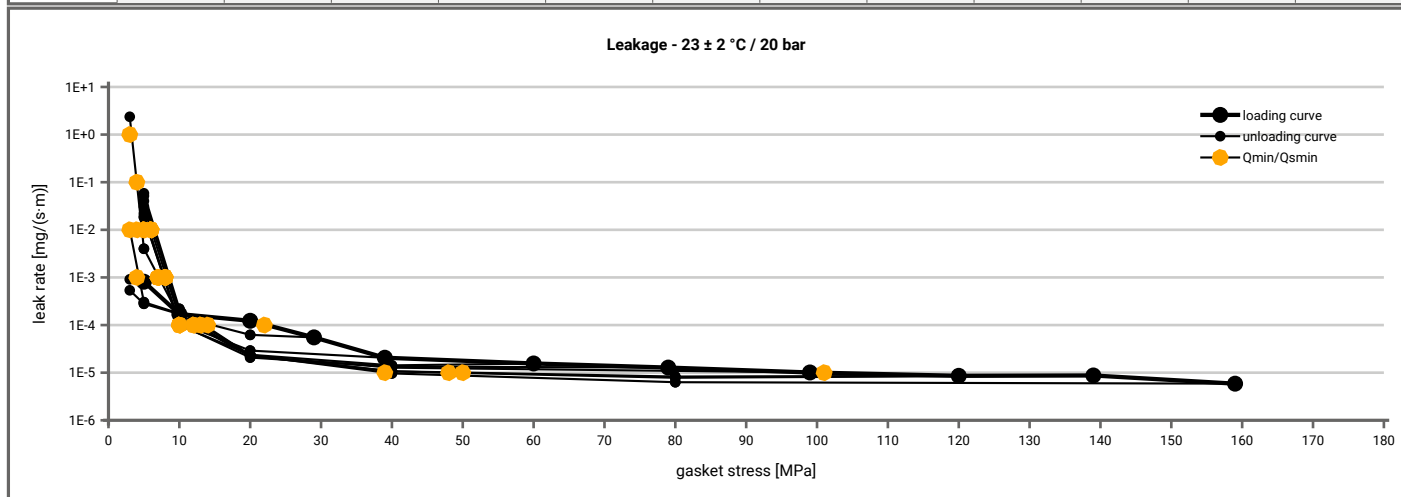


Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to prEN 13555 2019-11
Product name	GYLON® Style EPIX 3504 EPX	
Product dimensions	92 x 49 x 2.4 mm	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 10$ bar ($T = 23 \pm 2$ °C)												
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]										
		$Q_A = 5$ [MPa]	$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E-0	5	3	3	3	3	3	3	5	5	5	5	5
1E-1	5	3	3	3	3	3	4	5	5	5	5	5
1E-2	5	3	3	3	3	4	4	5	5	5	5	6
1E-3	5	3	3	3	3	5	5	5	6	7	7	8
1E-4	16			12	8	8	8	8	9	9	9	10
1E-5	59						57	25	19	18	19	20
1E-6												
1E-7												
1E-8												



Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 20$ bar ($T = 23 \pm 2$ °C)												
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]										
		$Q_A = 5$ [MPa]	$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E+1	5	3	3	3	3	5	5	5	5	5	5	5
1E-0	5	3	3	3	3	5	5	5	5	5	5	5
1E-1	5	3	3	3	4	5	5	5	5	5	5	5
1E-2	5	3	3	3	5	6	6	6	6	6	6	7
1E-3	5	3	3	4	7	8	8	8	8	8	8	9
1E-4	23				15	11	10	10	12	13	13	13
1E-5	102									51	48	39
1E-6												
1E-7												
1E-8												



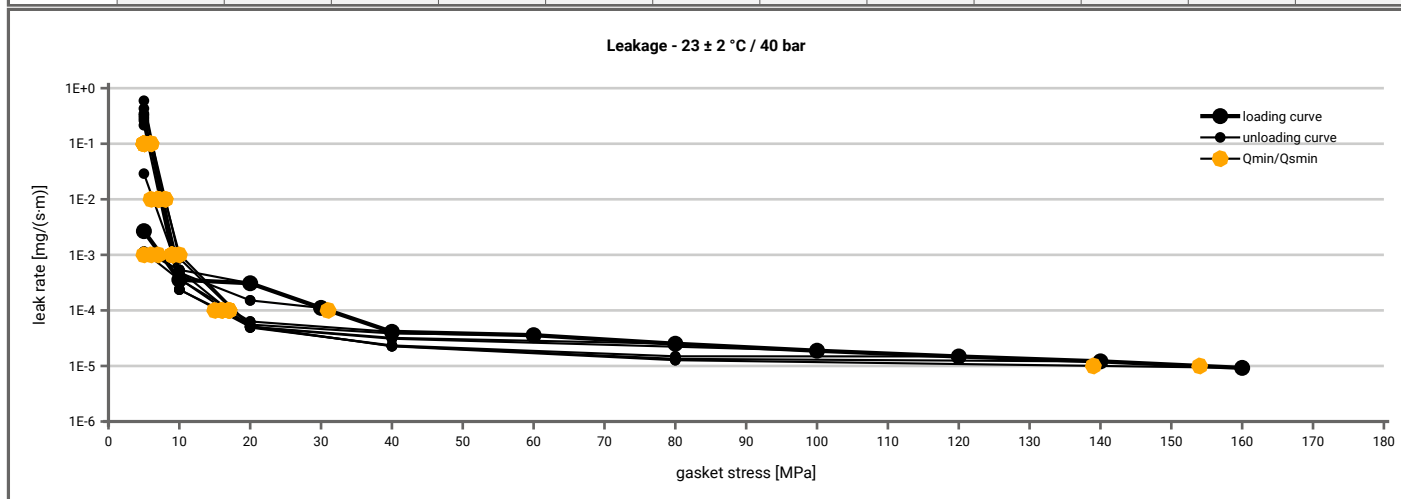
Note: the content of darkened cells was not determined respectively is unnecessary

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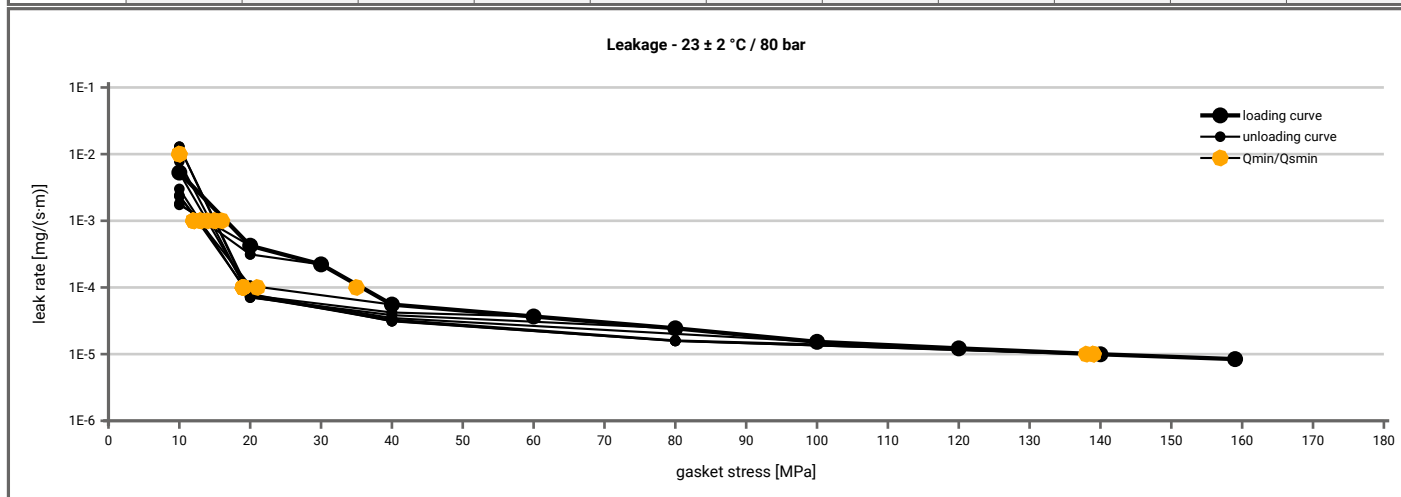
Creation date of this sheet: 2020-11-05

Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to prEN 13555 2019-11
Product name	GYLON® Style EPIX 3504 EPX	
Product dimensions	92 x 49 x 2.4 mm	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 40$ bar ($T = 23 \pm 2$ °C)												
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]										
		$Q_A = 5$ [MPa]	$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E-0	5		5	5	5	5	5	5	5	5	5	5
1E-1	5		5	5	5	6	6	6	6	6	6	6
1E-2	5		5	5	6	8	7	7	8	8	8	8
1E-3	7		6	6	9	9	9	9	9	10	10	10
1E-4	31					17	16	16	17	17	18	18
1E-5	154											140
1E-6												
1E-7												
1E-8												



Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 80$ bar ($T = 23 \pm 2$ °C)											
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]									
		$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 80$ [MPa]	$Q_A = 100$ [MPa]	$Q_A = 120$ [MPa]	$Q_A = 140$ [MPa]	$Q_A = 160$ [MPa]
1E-0	10		10	10	10	10	10	10	10	10	10
1E-1	10		10	10	10	10	10	10	10	10	10
1E-2	10		10	10	10	10	10	10	10	10	11
1E-3	17		14	13	13	13	13	14	14	15	15
1E-4	36				22	19	19	19	19	19	20
1E-5	139									139	138
1E-6											
1E-7											
1E-8											

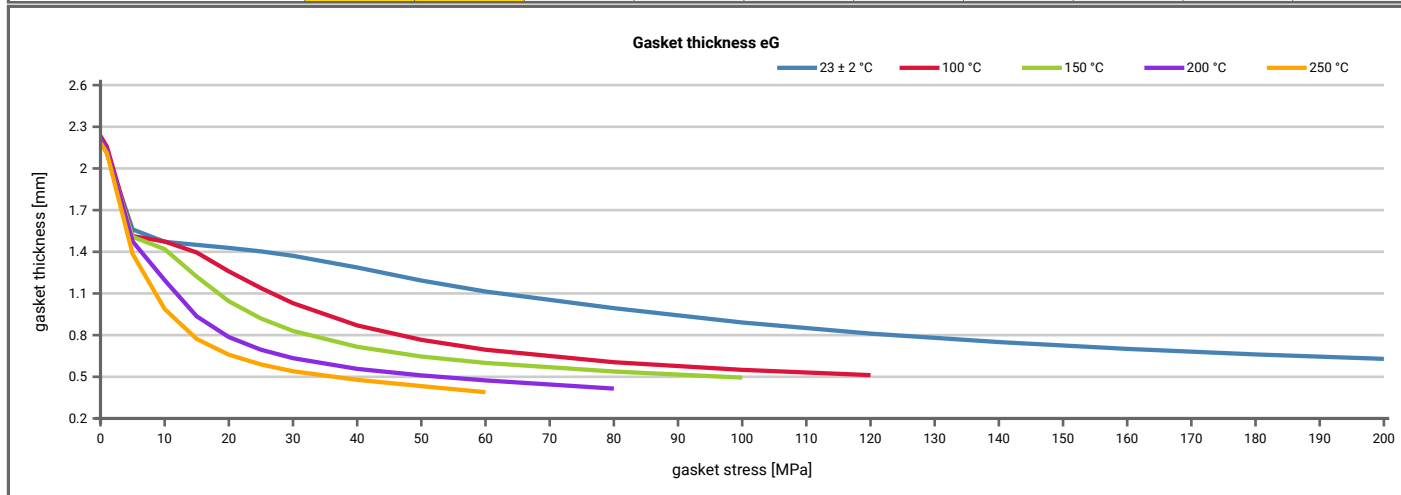


Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2020-11-05
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Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to prEN 13555 2019-11
Product name	GYLON® Style EPIX 3504 EPX	
Product dimensions	92 x 49 x 2.4 mm	

Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [100 °C]		Temperature 2 [150 °C]		Temperature 3 [200 °C]		Temperature 4 [250 °C]	
	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]	P_{QR}	Δe_{Gc} [µm]
Stress level 1 [10 MPa]	0.90	8	0.66	29	0.54	39	0.47	45	0.36	54
Stress level 2 [20 MPa]	0.90	17	0.54	77	0.42	97	0.35	109	0.24	128
Stress level 3 [30 MPa]			0.49	128	0.38	156				
Stress level 4 [40 MPa]	0.85	50								
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.96	76	0.78	227	0.69	260	0.52	322	0.33	340
Q_{smax}	200 MPa		120 MPa		100 MPa		80 MPa		60 MPa	

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	23 ± 2 °C		Temperature 1 [100 °C]		Temperature 2 [150 °C]		Temperature 3 [200 °C]		Temperature 4 [250 °C]	
	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]	E_G [MPa]	e_G [mm]
0	0	2.193	0	2.234	0	2.196	0	2.220	0	2.186
1	0	2.110	0	2.157	0	2.113	0	2.135	0	2.112
5	132	1.561	287	1.513	348	1.508	272	1.475	236	1.385
10	762	1.472	1191	1.474	817	1.419	348	1.196	289	0.988
15	2655	1.450	2068	1.395	1780	1.221	478	0.935	410	0.772
20	3761	1.428	12576	1.259	2720	1.044	625	0.786	509	0.659
25	3430	1.403	37377	1.139	5929	0.920	758	0.695	621	0.589
30	3056	1.371	8264	1.030	29772	0.830	906	0.634	710	0.540
40	3562	1.287	13647	0.870	27898	0.716	1226	0.557	1028	0.478
50	4215	1.193	8831	0.766	13680	0.646	1714	0.510	1420	0.433
60	4504	1.114	6549	0.695	9470	0.600	2285	0.474	1993	0.389
80	7039	0.994	7895	0.605	4996	0.538	4668	0.415		
100	8648	0.891	4900	0.550	4061	0.494				
120	7608	0.811	4340	0.512						
140	6867	0.750								
160	5770	0.701								
180	5132	0.661								
200	4600	0.629								



Fields marked: Intrusion into bore was detected. Determined after the corresponding P_{QR} -Test.