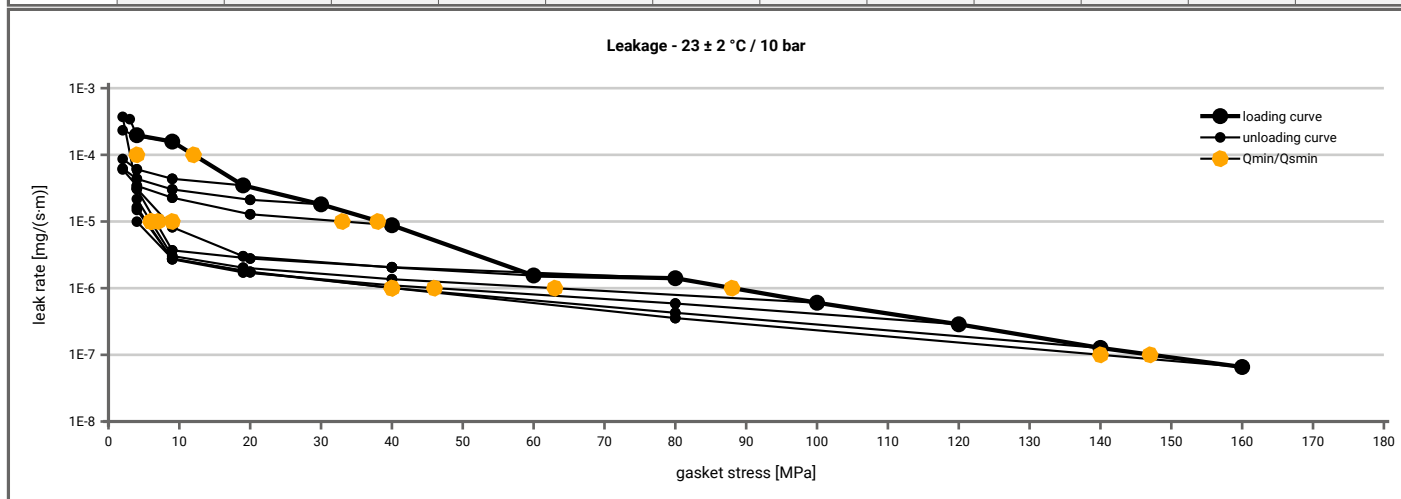
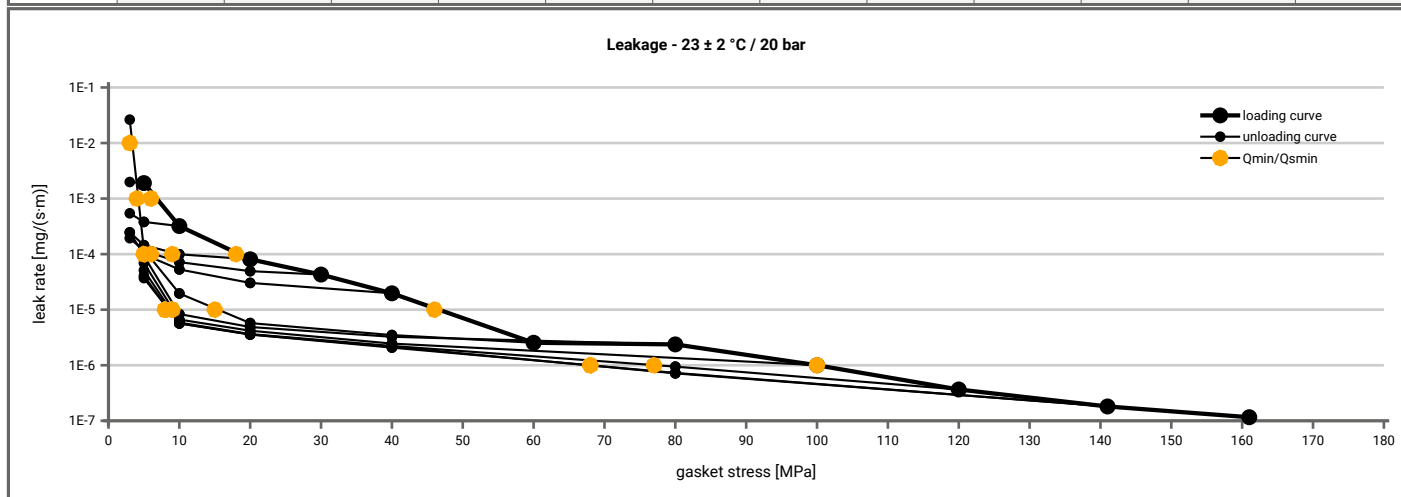


Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to EN 13555 2021-4
Product name	GYLON EPIX® Style 3510 EPX	
Product dimensions	92 x 49 x 2.4 mm	

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	3	5	5	5	5	5
1E-2	5	3	3	3	3	3	3	5	5	5	5	5
1E-3	5	3	3	3	3	3	3	5	5	5	5	5
1E-4	13			3	3	3	4	5	5	5	5	5
1E-5	38					33	9	8	7	6	6	5
1E-6	88								63	46	40	40
1E-7	148											141
1E-8												



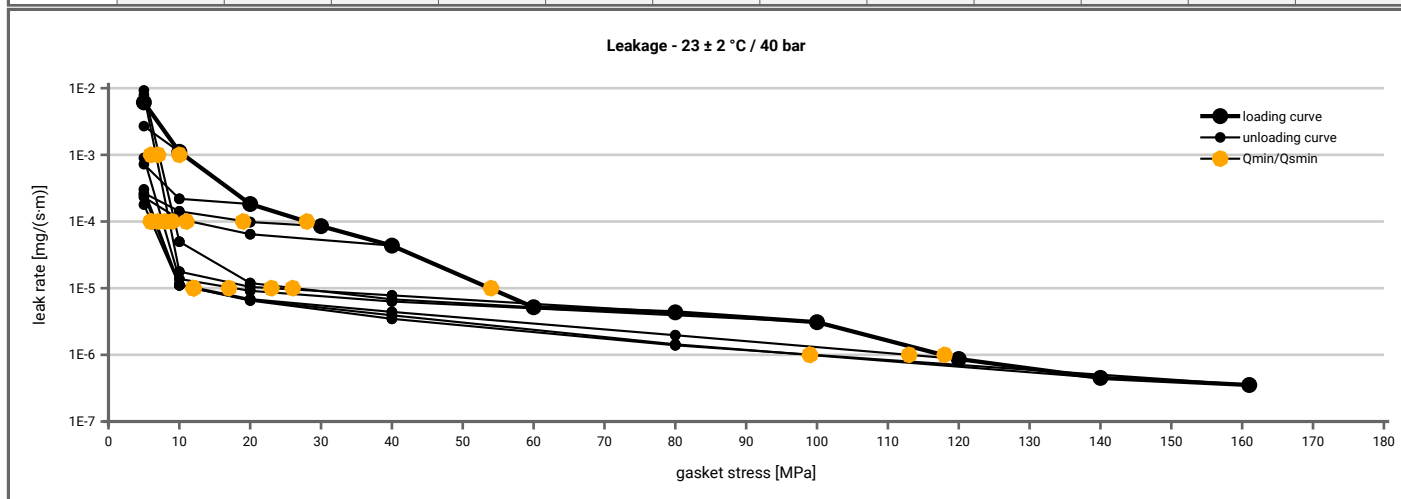
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 20$ bar ($T = 23 \pm 2$ °C)												
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]										
		$Q_A = 5$ [MPa]	$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [MPa]	$Q_A = 60$ [MPa]	$Q_A = 81$ [MPa]	$Q_A = 101$ [MPa]	$Q_A = 121$ [MPa]	$Q_A = 141$ [MPa]	$Q_A = 161$ [MPa]
1E-0	5	3	3	3	3	3	3	5	5	5	5	5
1E-1	5	3	3	3	3	3	3	5	5	5	5	5
1E-2	5	3	3	3	3	3	3	5	5	5	5	5
1E-3	7		3	3	3	3	4	5	5	5	5	5
1E-4	18			10	6	5	5	5	5	5	5	5
1E-5	47						15	10	9	9	9	8
1E-6	101									78	68	68
1E-7												
1E-8												



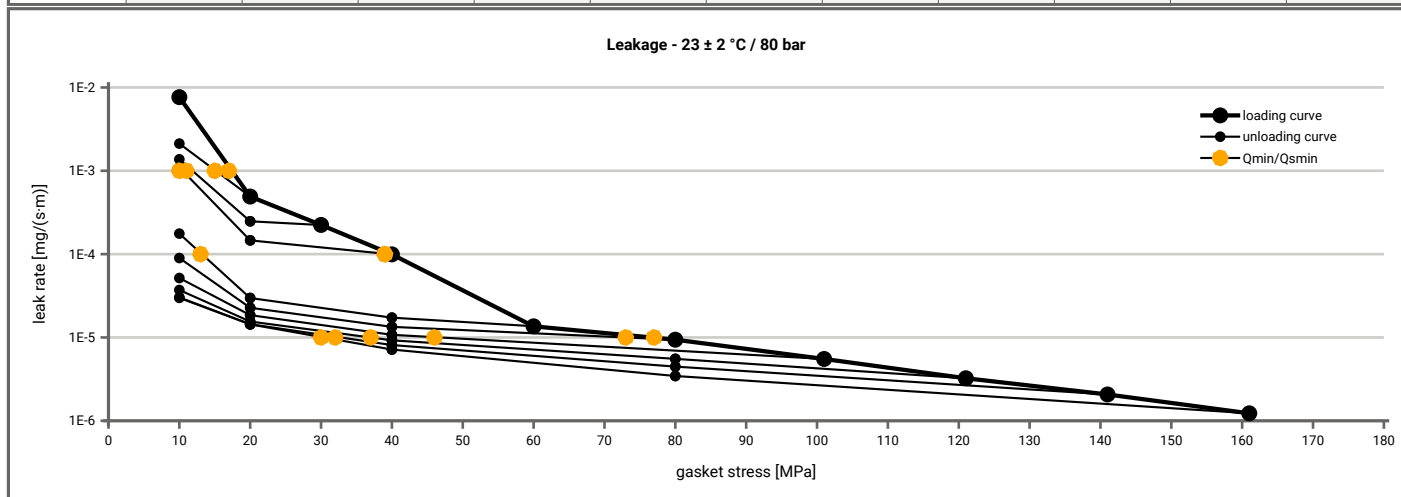
Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2021-03-24
--	-------------	---

Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to EN 13555 2021-4
Product name	GYLON EPIX® Style 3510 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]	$Q_A = 101$ [MPa]	$Q_A = 121$ [MPa]	$Q_A = 141$ [MPa]	$Q_A = 161$ [MPa]
1E-0	5		5	5	5	5	5	5	5	5	5	5
1E-1	5		5	5	5	5	5	5	5	5	5	5
1E-2	5		5	5	5	5	5	5	5	5	5	5
1E-3	11			5	5	5	7	7	5	5	5	5
1E-4	28				20	12	9	9	8	7	7	6
1E-5	54						26	23	18	13	12	12
1E-6	118									114	99	100
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]	$Q_A = 81$ [MPa]	$Q_A = 101$ [MPa]	$Q_A = 121$ [MPa]	$Q_A = 141$ [MPa]	$Q_A = 161$ [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	10
1E-3	17		15	12	10	10	10	10	10	10	10
1E-4	40				40	13	10	10	10	10	10
1E-5	77						73	47	37	33	30
1E-6											
1E-7											
1E-8											

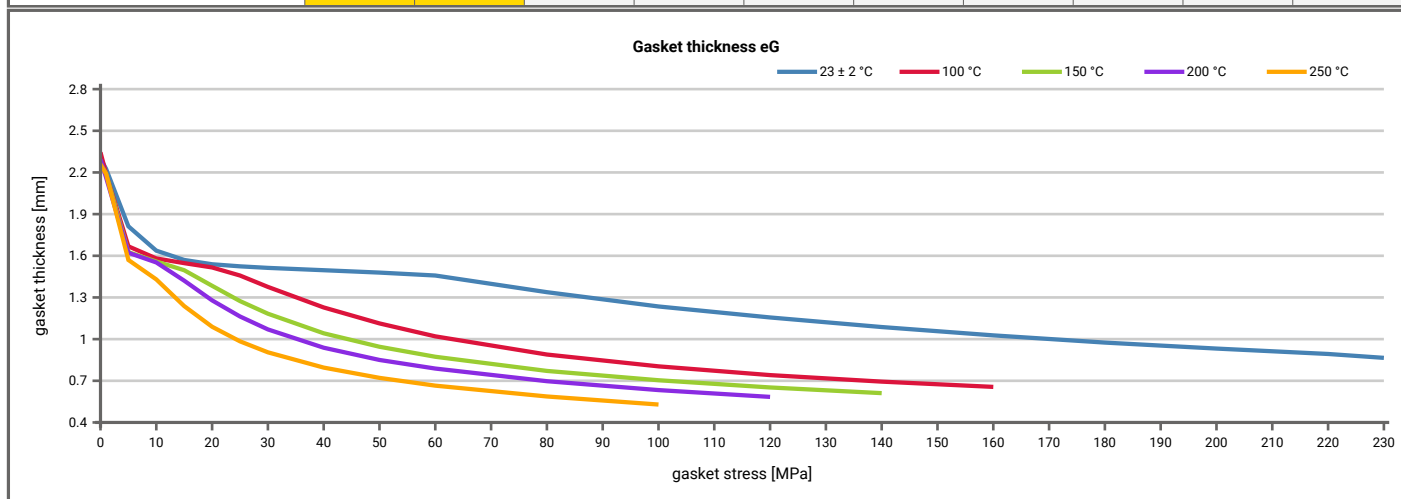


Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2021-03-24
--	-------------	---

Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to EN 13555 2021-4
Product name	GYLON EPIX® Style 3510 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]	0.82	16	0.56	37	0.50	42	0.48	44	0.40	51
Stress level 2 [20 MPa]	0.90	17	0.72	48	0.64	61	0.53	80	0.40	102
Stress level 3 [30 MPa]							0.50	126	0.44	141
Stress level 4 [40 MPa]					0.51	166				
Stress level 5 [50 MPa]			0.64	153						
Stress level 6 [80 MPa]	0.90	70								
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.96	77	0.74	349	0.70	352	0.61	393	0.53	394
Q_{smax}	230 MPa		160 MPa		140 MPa		120 MPa		100 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	2.300	0	2.345	0	2.265	0	2.295	0	2.260
1	0	2.226	0	2.191	0	2.192	0	2.163	0	2.189
5	167	1.812	283	1.668	255	1.626	384	1.622	399	1.570
10	531	1.637	638	1.581	803	1.559	916	1.552	739	1.430
15	851	1.570	1245	1.547	1292	1.496	1142	1.421	981	1.238
20	1362	1.539	1787	1.516	1571	1.384	1299	1.279	941	1.089
25	1935	1.524	2302	1.458	1757	1.274	1531	1.163	1093	0.984
30	2445	1.513	2651	1.376	1977	1.183	1552	1.070	1123	0.905
40	3144	1.496	3273	1.228	2340	1.042	1576	0.938	1261	0.795
50	3706	1.479	3692	1.113	2513	0.945	1755	0.850	1445	0.721
60	4800	1.458	4272	1.020	2864	0.873	2062	0.788	1640	0.665
80	10955	1.338	4666	0.889	3071	0.771	2463	0.697	1951	0.587
100	10818	1.235	4885	0.804	3396	0.704	2321	0.633	2014	0.529
120	10171	1.156	4716	0.741	3423	0.652	2598	0.584		
140	10263	1.087	4779	0.694	3202	0.611				
160	9084	1.027	4563	0.656						
180	7919	0.975								
200	7260	0.932								
220	6640	0.893								
230	6089	0.865								



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