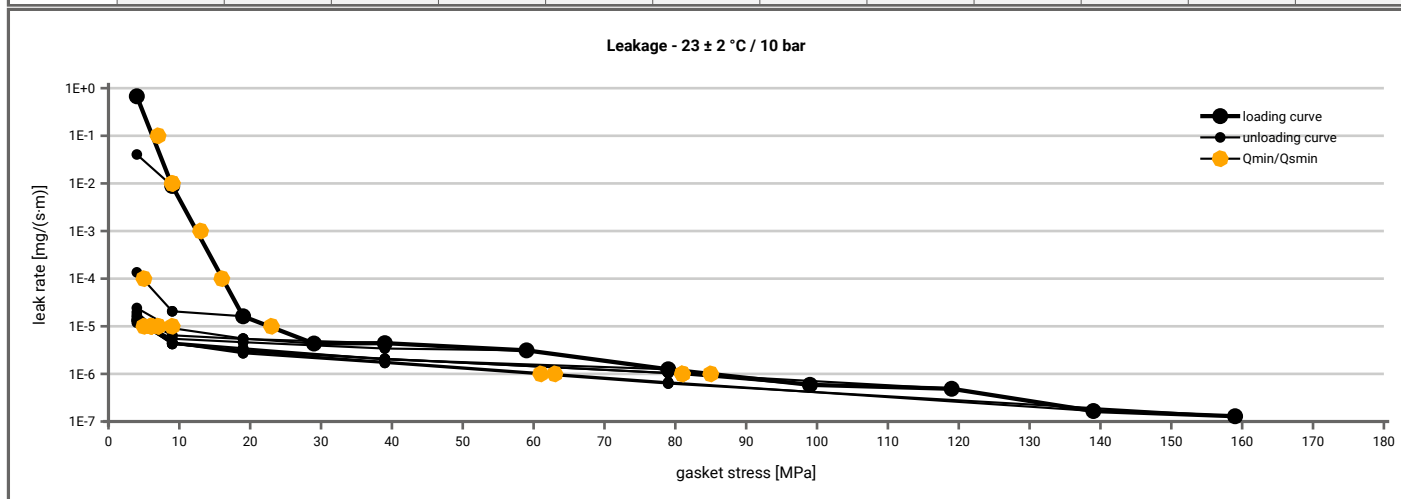
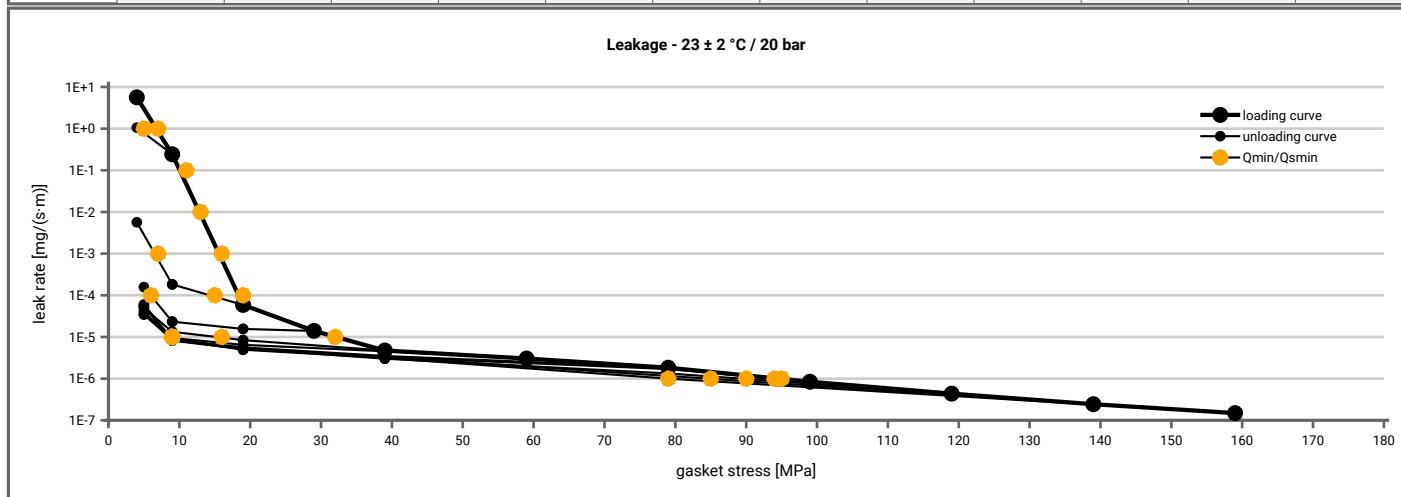


Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to prEN 13555 2019-11
Product name	Gylon® Style 3510	
Product dimensions	92 x 49 x 2 mm	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 10 \text{ bar}$ ($T = 23 \pm 2 \text{ }^{\circ}\text{C}$)												
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]										
		$Q_A = 5 \text{ [MPa]}$	$Q_A = 10 \text{ [MPa]}$	$Q_A = 20 \text{ [MPa]}$	$Q_A = 30 \text{ [MPa]}$	$Q_A = 40 \text{ [MPa]}$	$Q_A = 60 \text{ [MPa]}$	$Q_A = 80 \text{ [MPa]}$	$Q_A = 100 \text{ [MPa]}$	$Q_A = 120 \text{ [MPa]}$	$Q_A = 140 \text{ [MPa]}$	$Q_A = 160 \text{ [MPa]}$
1E-0	5		5	5	5	5	5	5	5	5	5	5
1E-1	7		5	5	5	5	5	5	5	5	5	5
1E-2	10		9	5	5	5	5	5	5	5	5	5
1E-3	13			5	5	5	5	5	5	5	5	5
1E-4	17			6	5	5	5	5	5	5	5	5
1E-5	23				9	7	6	6	6	6	7	7
1E-6	86								81	82	63	61
1E-7												
1E-8												



Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 20 \text{ bar}$ ($T = 23 \pm 2 \text{ }^{\circ}\text{C}$)												
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]										
		$Q_A = 5 \text{ [MPa]}$	$Q_A = 10 \text{ [MPa]}$	$Q_A = 20 \text{ [MPa]}$	$Q_A = 30 \text{ [MPa]}$	$Q_A = 40 \text{ [MPa]}$	$Q_A = 60 \text{ [MPa]}$	$Q_A = 80 \text{ [MPa]}$	$Q_A = 100 \text{ [MPa]}$	$Q_A = 120 \text{ [MPa]}$	$Q_A = 140 \text{ [MPa]}$	$Q_A = 160 \text{ [MPa]}$
1E+1	5		5	5	5	5	5	5	5	5	5	5
1E-0	8		5	5	5	5	5	5	5	5	5	5
1E-1	11			5	5	5	5	5	5	5	5	5
1E-2	14			5	5	5	5	5	5	5	5	5
1E-3	16			7	5	5	5	5	5	5	5	5
1E-4	19			15	6	5	5	5	5	5	5	5
1E-5	33					16	10	9	9	10	9	10
1E-6	95								95	90	85	80
1E-7												
1E-8												



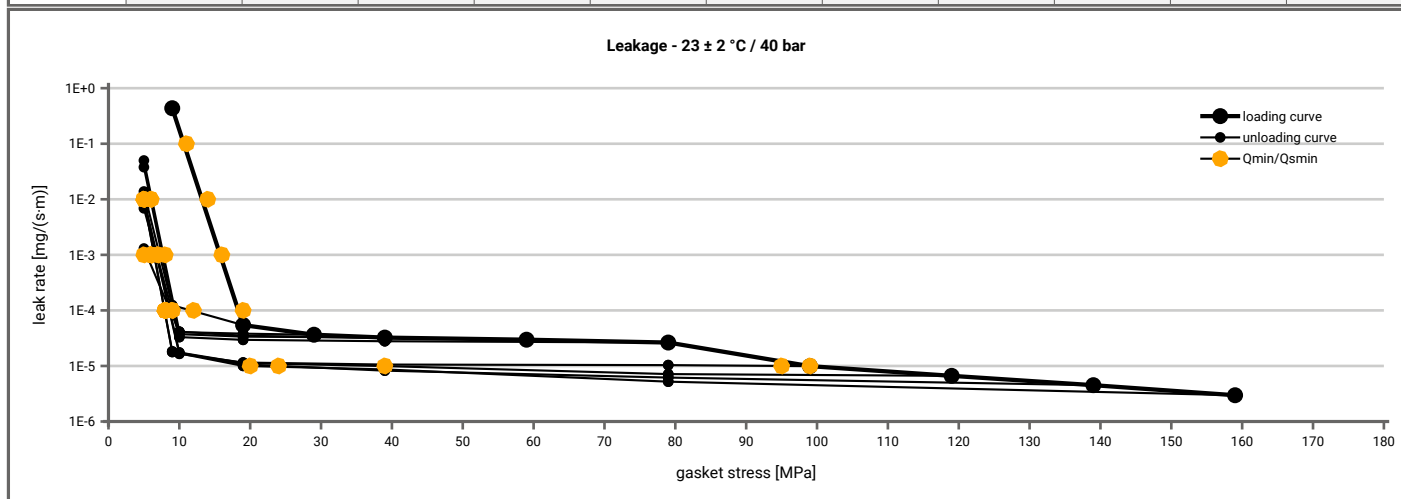
Note: the content of darkened cells was not determined respectively is unnecessary

Rev.-No.: 3

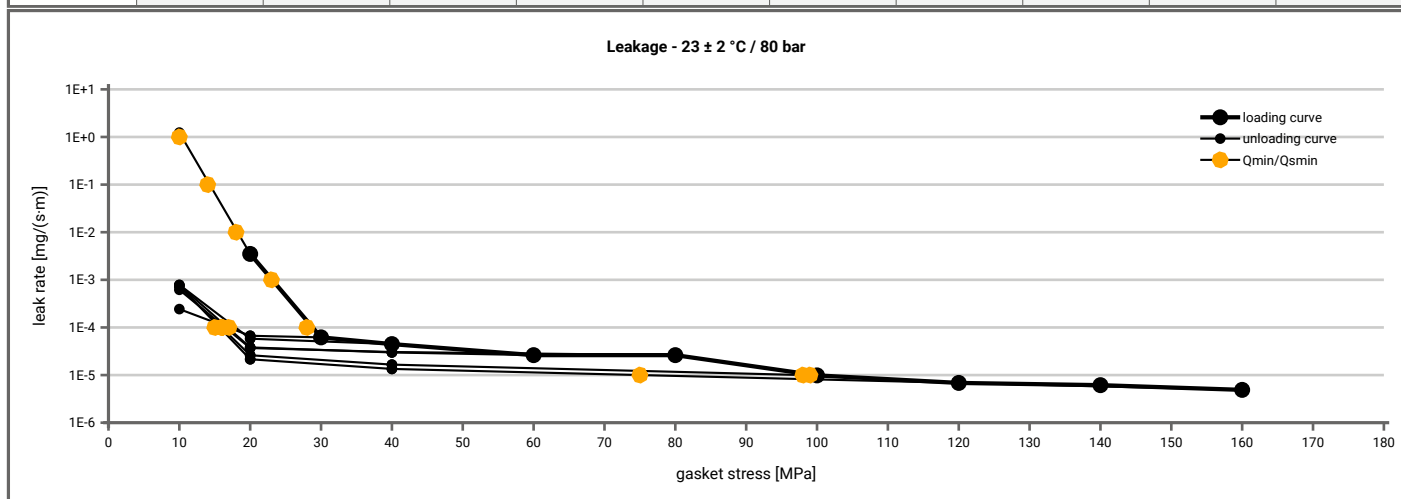
Creation date of this sheet: 2020-12-17

Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to prEN 13555 2019-11
Product name	Gylon® Style 3510	
Product dimensions	92 x 49 x 2 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]									
		$Q_A = 10$ [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		5	5	5	5	5	5	5	5	5
1E-1	11		5	5	5	5	5	5	5	5	5
1E-2	14		6	5	5	6	5	5	5	5	5
1E-3	17		8	5	7	8	7	7	7	7	7
1E-4	19		13	9	9	9	9	9	9	9	9
1E-5	100							96	39	25	20
1E-6											
1E-7											
1E-8											



Minimum stress to seal $Q_{\min(L)}$ (at assembly), $Q_{s\min(L)}$ (after off-loading) for p = 80 bar (T = 23 ± 2 °C)										
L [mg/(s·m)]	$Q_{\min(L)}$ [MPa]	$Q_{s\min(L)}$ [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	20	10	10	10	10	10	10			10
1E-0	20	10	10	10	10	10	10			10
1E-1	20	14	10	10	10	10	10			10
1E-2	20	18	10	10	10	10	10			10
1E-3	23		10	10	10	10	10			10
1E-4	29		17	18	17	16	16			16
1E-5	100						98			75
1E-6										
1E-7										
1E-8										

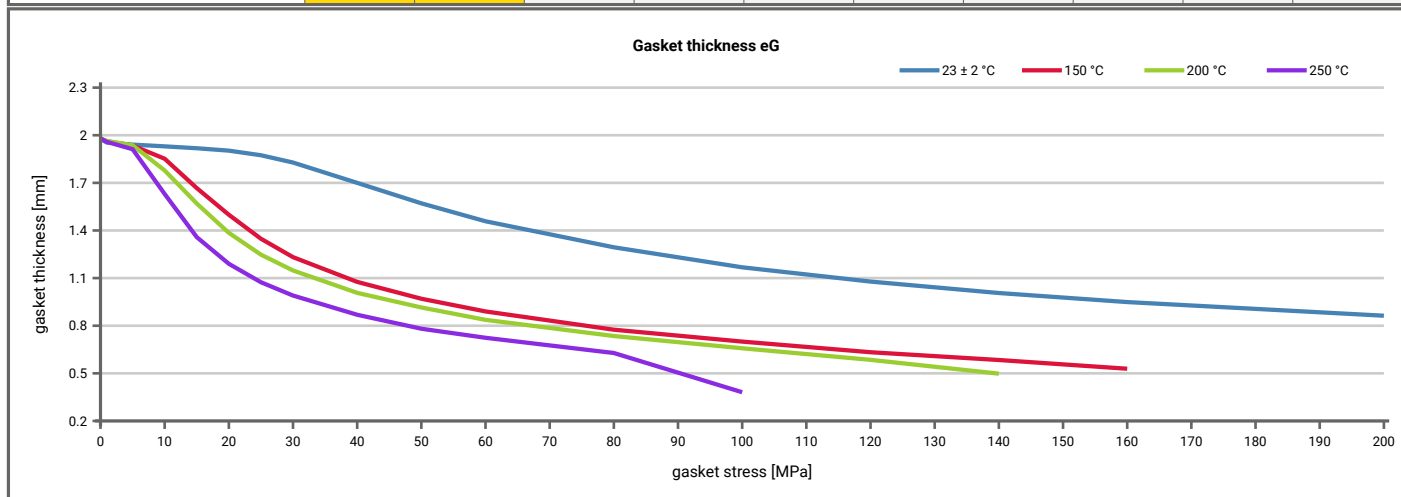


Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 3	Creation date of this sheet: 2020-12-17
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Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to prEN 13555 2019-11
Product name	Gylon® Style 3510	
Product dimensions	92 x 49 x 2 mm	

Relaxation ratio P_{QR} for stiffness $C = 500$ [kN/mm]										
Gasket stress	23 ± 2 °C		Temperature 1 [150 °C]		Temperature 2 [200 °C]		Temperature 3 [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]	0.89	10	0.87	11	0.61	33	0.58	36		
Stress level 2 [30 MPa]	0.90	26	0.50	126	0.34	166	0.30	176		
Stress level 3 [35 MPa]							0.26	219		
Stress level 4 [40 MPa]			0.44	190	0.35	220				
Stress level 5 [60 MPa]	0.82	93								
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.94	109	0.73	363	0.71	341	0.45	466		
Q_{smax}	200 MPa		160 MPa		140 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 [150 °C]		Temperature 2 [200 °C]		Temperature 3 [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	1.976	0	1.980	0	1.974	0	1.978		
1	0	1.954	0	1.962	0	1.964	0	1.958		
5	1883	1.941	2431	1.935	1522	1.937	745	1.912		
10	1895	1.930	644	1.852	649	1.778	543	1.630		
15	2065	1.918	741	1.667	768	1.570	683	1.358		
20	2509	1.903	1310	1.499	663	1.385	592	1.190		
25	2132	1.874	1052	1.348	917	1.248	740	1.074		
30	2400	1.828	928	1.232	1034	1.148	767	0.990		
40	2848	1.700	1097	1.076	1398	1.007	1173	0.869		
50	2676	1.571	1482	0.970	1212	0.915	1047	0.781		
60	4306	1.458	1555	0.890	1377	0.837	1397	0.724		
80	6233	1.294	1801	0.775	1885	0.735	2256	0.628		
100	5602	1.168	2901	0.700	1765	0.658	1877	0.381		
120	5747	1.078	2202	0.633	1998	0.585				
140	4927	1.006	4083	0.584	1952	0.498				
160	5562	0.949	4890	0.529						
180	5412	0.906								
200	4751	0.863								



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