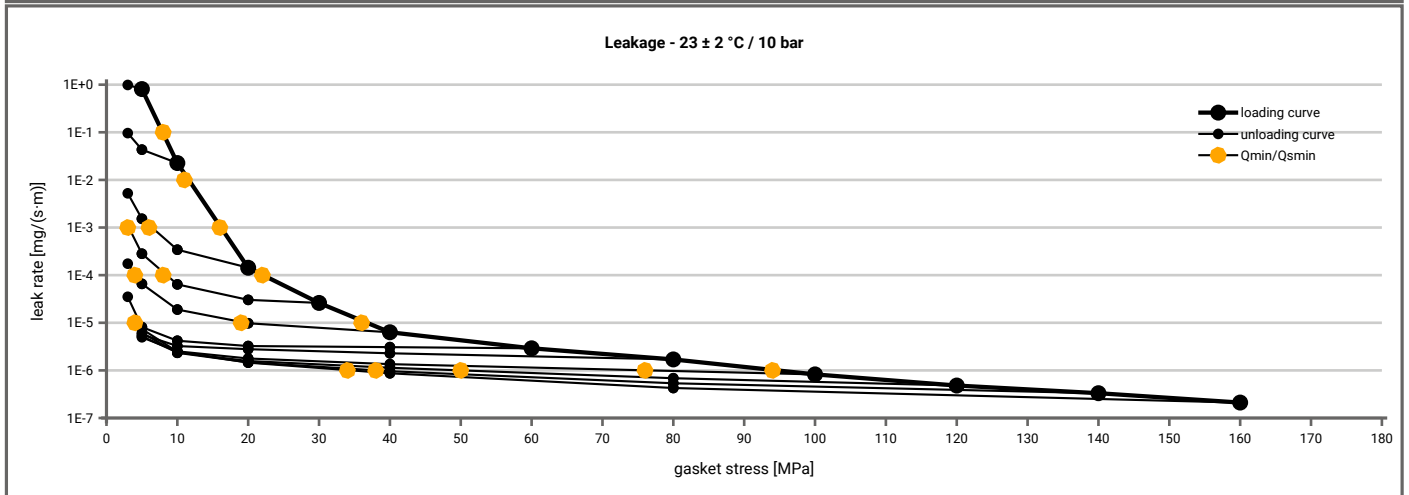
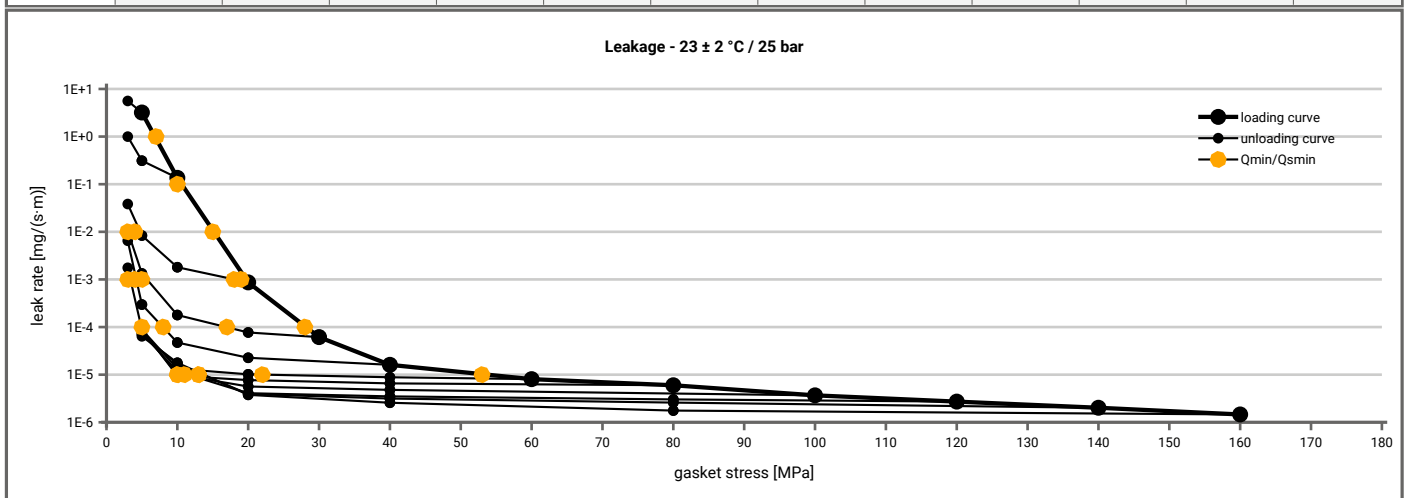


Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to <b>EN 13555</b> <b>2021-4</b>
Product name	GYLON® 3545	
Product dimensions	92 x 49 x 2 mm	

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]										
		$Q_A = 5$ [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	8		3	3	3	3	3	5	5	5	5	5
1E-2	12			3	3	3	3	5	5	5	5	5
1E-3	16			7	3	3	3	5	5	5	5	5
1E-4	22				9	4	3	5	5	5	5	5
1E-5	37					20	5	5	5	5	5	5
1E-6	95								77	50	38	35
1E-7												



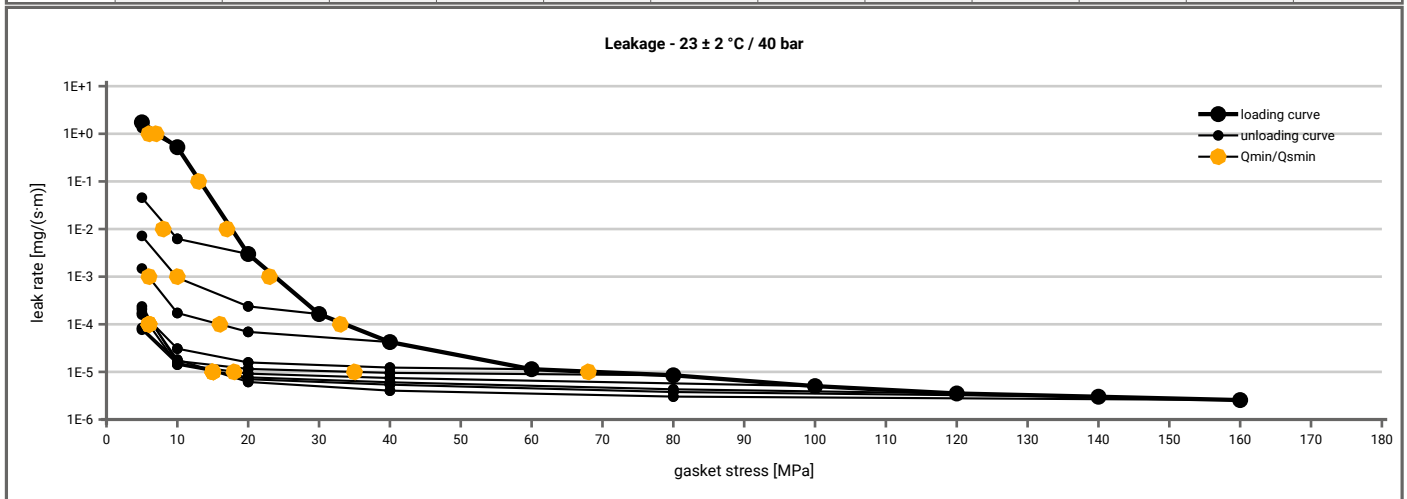
Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 25 \text{ bar}$ ( $T = 23 \pm 2 \text{ }^\circ\text{C}$ )												
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]										
		$Q_A = 5$ [MPa]	$Q_A = 10$ [MPa]	$Q_A = 20$ [MPa]	$Q_A = 30$ [MPa]	$Q_A = 40$ [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	3	3	5	5	5	5	5
1E-0	7		3	3	3	3	3	5	5	5	5	5
1E-1	11			3	3	3	3	5	5	5	5	5
1E-2	15			5	3	3	3	5	5	5	5	5
1E-3	20			18	6	4	4	5	5	5	5	5
1E-4	28				17	8	5	5	5	5	5	5
1E-5	54						22	10	10	12	14	14
1E-6												
1E-7												



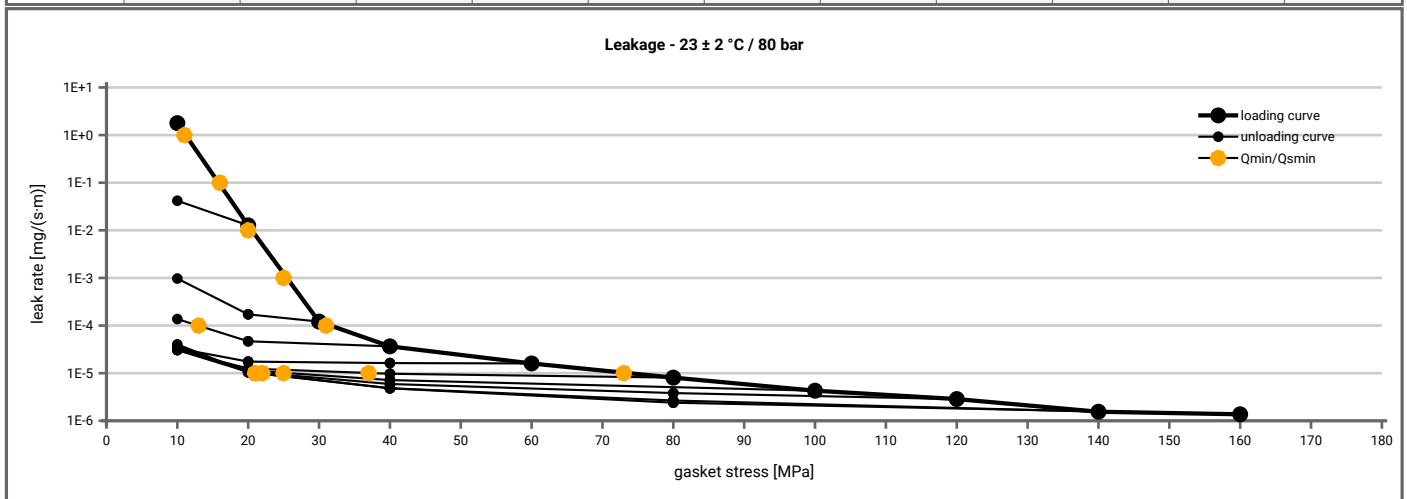
Note: the content of darkened cells was not determined respectively is unnecessary Rev.-No.: 1 Creation date of this sheet: 2022-01-18

Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to <b>EN 13555</b> <b>2021-4</b>
Product name	GYLON® 3545	
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]										
		$Q_A = 5$ [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		5	5	5	5	5	5	5	5	5	5
1E-0	7		7	5	5	5	5	5	5	5	5	5
1E-1	13			5	5	5	5	5	5	5	5	5
1E-2	18			9	5	5	5	5	5	5	5	5
1E-3	24				10	6	5	5	5	5	5	5
1E-4	34					16	7	5	5	6	7	7
1E-5	69							35	18	16	16	16
1E-6												
1E-7												



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+1	10		10	10	10	10	10	10	10	10	10	10
1E-0	11		10	10	10	10	10	10	10	10	10	10
1E-1	16		10	10	10	10	10	10	10	10	10	10
1E-2	21			10	10	10	10	10	10	10	10	10
1E-3	26			10	10	10	10	10	10	10	10	10
1E-4	32				13	10	10	10	10	10	10	10
1E-5	74						38	26	22	21	21	
1E-6												
1E-7												

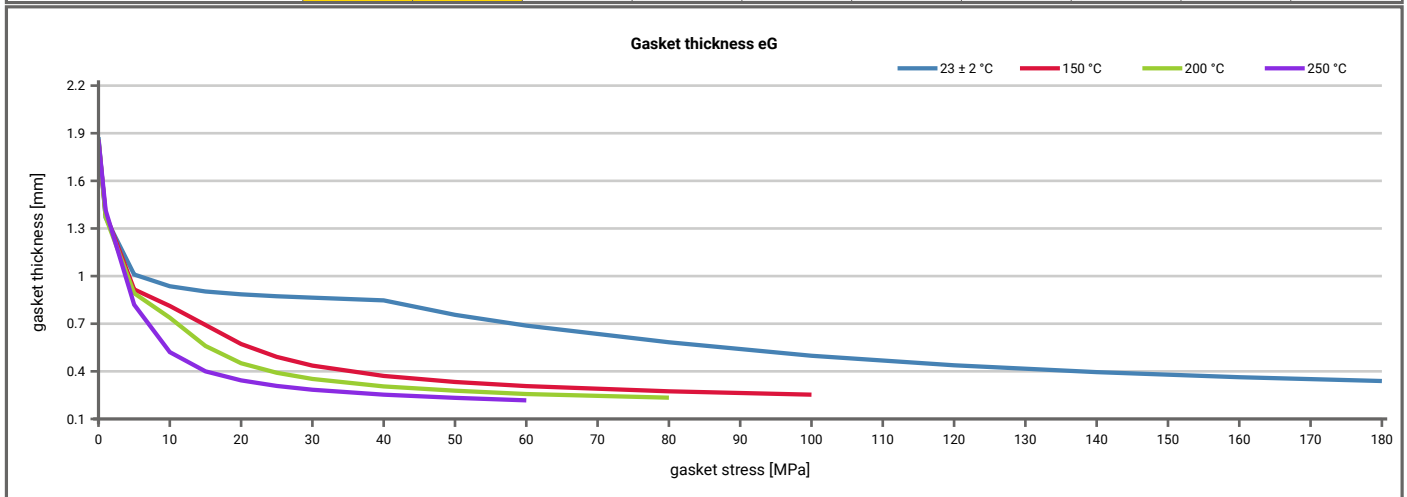


Note: the content of darkened cells was not determined respectively is unnecessary Rev.-No.: 1 Creation date of this sheet: 2022-01-18

<b>Manufacturer address</b>	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to <b>EN 13555</b> <b>2021-4</b>
<b>Product name</b>	GYLON® 3545	
<b>Product dimensions</b>	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]		$P_{QR}$	$\Delta e_{Gc}$ [µm]
	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]	$P_{QR}$	$\Delta e_{Gc}$ [µm]		
Stress level 1 [10 MPa]	0.87	11	0.74	22	0.56	37	0.37	53		
Stress level 2 [20 MPa]	0.96	7	0.46	91	0.43	97	0.30	117		
Stress level 3 [25 MPa]					0.32	144				
Stress level 4 [30 MPa]			0.38	156						
Stress level 5 [60 MPa]	0.88	63					0.26	375		
Stress level 6 [80 MPa]	0.86	94			0.44	379				
<b><math>P_{QR}</math> and <math>\Delta e_{Gc}</math> at maximum gasket stress to be applied (<math>Q_{Smax}</math>)</b>										
$P_{QR}$ at $Q_{Smax}$	0.96	68	0.62	323	0.44	379	0.26	375		
$Q_{Smax}$	180 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 [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	1.875	0	1.850	0	1.860	0	1.860		
1	0	1.369	0	1.391	0	1.371	0	1.415		
5	155	1.010	244	0.916	322	0.892	322	0.820		
10	401	0.936	600	0.812	483	0.738	429	0.521		
15	560	0.903	664	0.692	480	0.560	297	0.400		
20	800	0.885	773	0.572	563	0.451	350	0.343		
25	1029	0.873	1024	0.491	596	0.391	374	0.308		
30	1270	0.864	1018	0.436	633	0.352	404	0.284		
40	1644	0.847	1151	0.371	866	0.305	486	0.253		
50	2995	0.756	1185	0.333	898	0.278	559	0.233		
60	3337	0.688	1335	0.307	840	0.257	623	0.217		
80	5093	0.583	1544	0.274	1224	0.234				
100	5281	0.498	1623	0.253						
120	4742	0.438								
140	4052	0.395								
160	3447	0.363								
180	3126	0.339								



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