

Company Address	Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany
Gasket Type	GYLON® Style 3510
Thickness e_{GO} [mm]	2 mm

Minimum stress to seal $Q_{min/L}$ (at assembly), $Q_{Smin/L}$ (after off-loading) for $p = 40$ bar									
L [mg/(s*m)]	$Q_{min/L}$ [MPa]	$Q_{Smin/L}$ [MPa]							
		$Q_A = 20$ [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]
10^{-0}	<10	<10	<10	<10	<10	<10			<10
10^{-1}	12,8	<10	<10	<10	<10	<10			<10
10^{-2}	16,0	<10	<10	<10	<10	<10			<10
10^{-3}	19,1	16,4	<10	<10	<10	<10			<10
10^{-4}	31,5		<10	<10	<10	<10			<10
10^{-5}	71,7				51,4	33,0			20,3
10^{-6}									
10^{-7}									
10^{-8}									

Relaxation ratio P_{QR} for stiffness $C = 500$ kN/mm			
Gasket stress [MPa]	ambient temperature	temperature 1 [150°C]	temperature 2 [250°C]
Stress level 1 [10 MPa]	0,89	0,87	0,58
Stress level 2 [30 MPa]	0,89	0,50	0,30
Q_{Smax} [200 / 160 / 100 MPa]	0,94	0,73	0,45

Maximal applicable gasket stress Q_{Smax}		
Q_{Smax} [MPa] – ambient temperature	Q_{Smax} [MPa] – temperature 1 [150°C]	Q_{Smax} [MPa] – temperature 2 [250°C]
200	160	100

Sekant unloading modulus of the gasket E_G [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [150°C]	temperature 2 [250°C]
20	1702	839	639
30	2058	1145	853
40	2130	1390	1016
50	2865	1462	1153
60	2735	2035	1251
80	4991	2301	1716
100	5948	1987	1781
120	3830	2034	
140	3862	2458	
160	3373	2013	
180	3850		
200	3543		
220			
225			

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

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