

Company Address	Garlock GmbH, Falkenweg 1, 41468 Neuss, Germany
Gasket Type	GYLON® Style 3510
Thickness $e_{GO}$ [mm]	3.2 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
$10^{-1}$	13,6	<10	<10	<10	<10	<10			<10
$10^{-2}$	19,5	<10	<10	<10	<10	<10			<10
$10^{-3}$	35,0		<10	<10	<10	<10			<10
$10^{-4}$	54,9			<10	<10	<10			<10
$10^{-5}$	96,9					37,0			53,9
$10^{-6}$									
$10^{-7}$									
$10^{-8}$									

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	0,65	0,47
Stress level 2 [30 MPa]	0,85	0,37	0,22
$Q_{Smax}$ [160 / 120 / 80 MPa]	0,87	0,50	0,26

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]
160	120	80

Sekant unloading modulus of the gasket $E_G$ [MPa]			
Gasket stress [MPa]	ambient temperature	temperature 1 [150°C]	temperature 2 [250°C]
20	1912	1163	585
30	2264	1278	924
40	2548	1726	870
50	3731	2126	1254
60	4118	2126	1271
80	5524	2246	1889
100	6245	2185	
120	5874	3873	
140	5420		
160	5350		
180			
200			
220			
225			