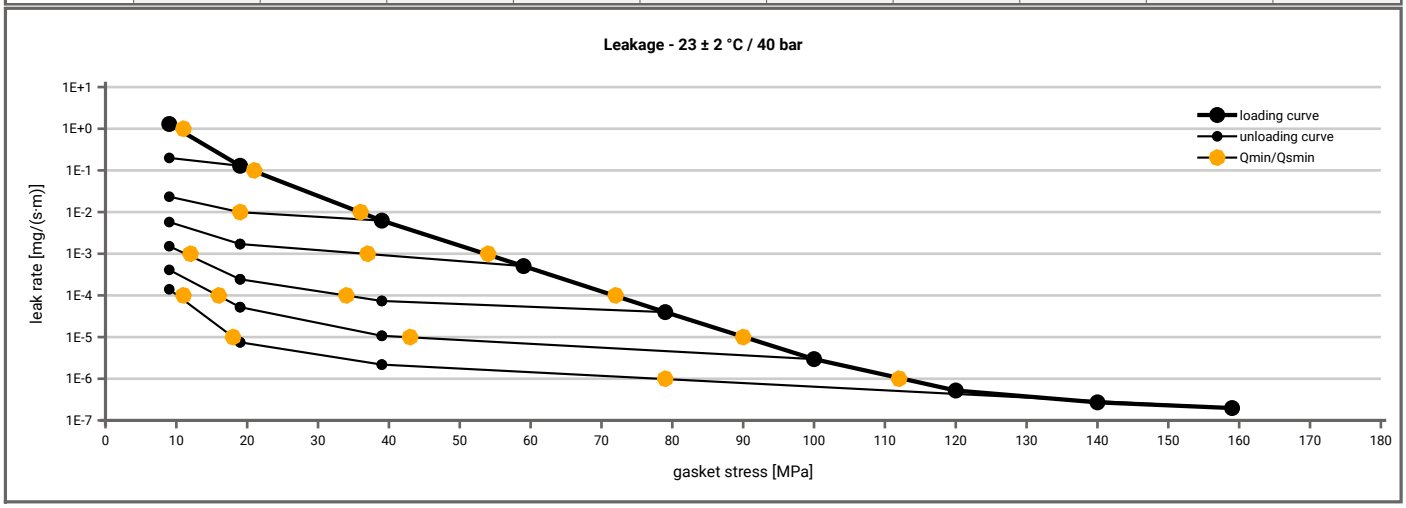
Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to **DIN EN 13555 2014-7**
Product name	9900	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)

L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]								
		Q_A = 10 [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]
1E+1	10		10	10	10	10	10			10
1E-0	11		10	10	10	10	10			10
1E-1	22			10	10	10	10			10
1E-2	37			20	10	10	10			10
1E-3	54				37	12	10			10
1E-4	73					35	17			11
1E-5	91						43			19
1E-6	112									79
1E-7										
1E-8										



Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **2**	Creation date of this sheet: **2016-08-26**

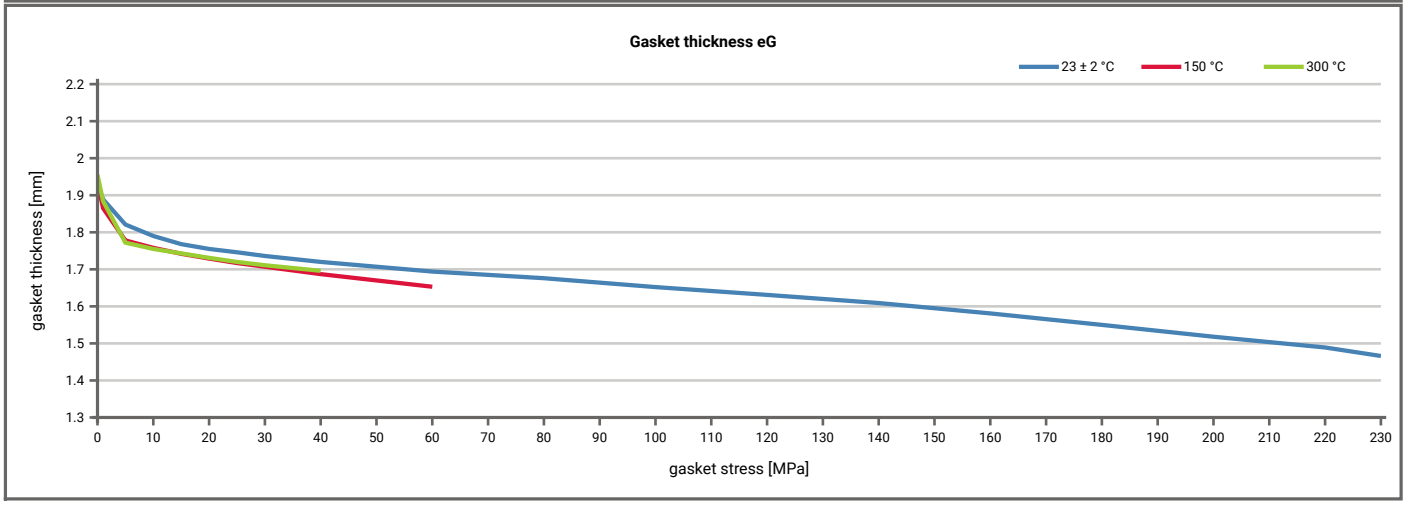
Manufacturer address	Garlock GmbH, Falkenweg 1, 41468 Neuss, DE	According to **DIN EN 13555 2014-7**
Product name	9900	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Relaxation ratio P_{QR} for stiffness C = 500 [kN/mm]

Gasket stress	23 ± 2 °C		Temperature 1 [150 °C]		Temperature 2 [300 °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	0.82	16	0.48	44				
Stress level 2 [30 MPa]	0.97	9	0.84	40	0.47	133				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	0.96	87	0.74	131	0.46	181				
Q_{smax}	230 MPa		60 MPa		40 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 [300 °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	1.931	0	1.935	0	1.955				
1	0	1.889	0	1.865	0	1.884				
5	317	1.821	759	1.778	4374	1.772				
10	638	1.790	754	1.758	1847	1.755				
15	773	1.768	991	1.742	1914	1.743				
20	1234	1.755	1257	1.729	2307	1.731				
25	1772	1.746	1500	1.717	2653	1.720				
30	1919	1.736	1863	1.707	2943	1.711				
40	2053	1.720	2310	1.687	3360	1.696				
50	3066	1.707	2786	1.670						
60	3445	1.694	3408	1.653						
80	4660	1.676								
100	4576	1.652								
120	6434	1.631								
140	6911	1.609								
160	6734	1.581								
180	6943	1.550								
200	7746	1.518								
220	9212	1.489								
230	9163	1.466								



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