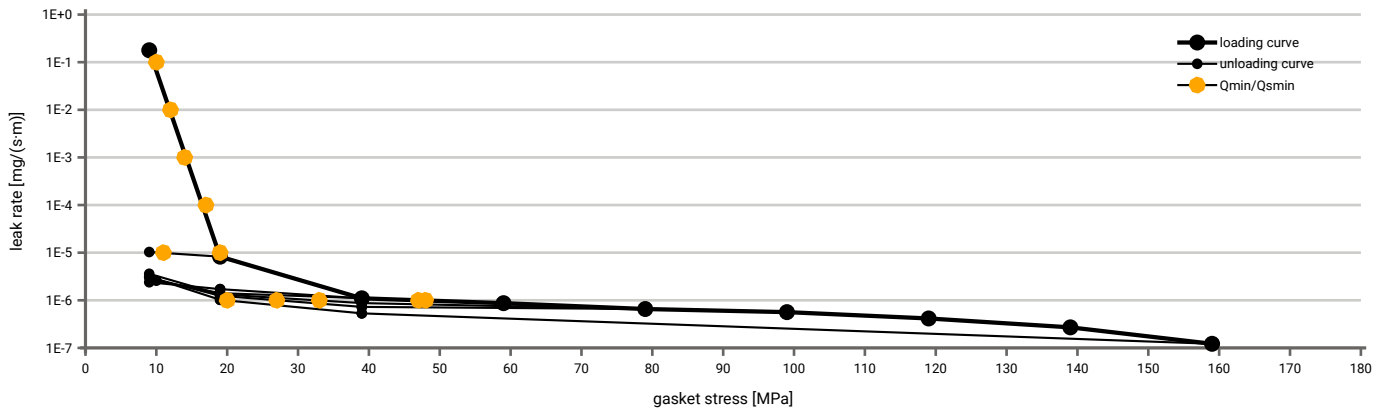
Manufacturer address	Kempchen Dichtungstechnik GmbH, Im Waldteich 21, 46147 Oberhausen, DE	According to **DIN EN 13555 2005-2**
Product name	Grooved gasket B25A / B27A / B29A-PTFE unsintered (1.4541 / 0,35 mm)	
Product dimensions	73 x 53 x 4.85 mm (Nonstandard)	

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 = 9.7 [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-0	10		10	10	10	10	10			10
1E-1	10		10	10	10	10	10			10
1E-2	13		10	10	10	10	10			10
1E-3	15		10	10	10	10	10			10
1E-4	17		10	10	10	10	10			10
1E-5	20		11	10	10	10	10			10
1E-6	48				48	28	33			21
1E-7										
1E-8										

Leakage - 23 ± 2 °C / 40 bar

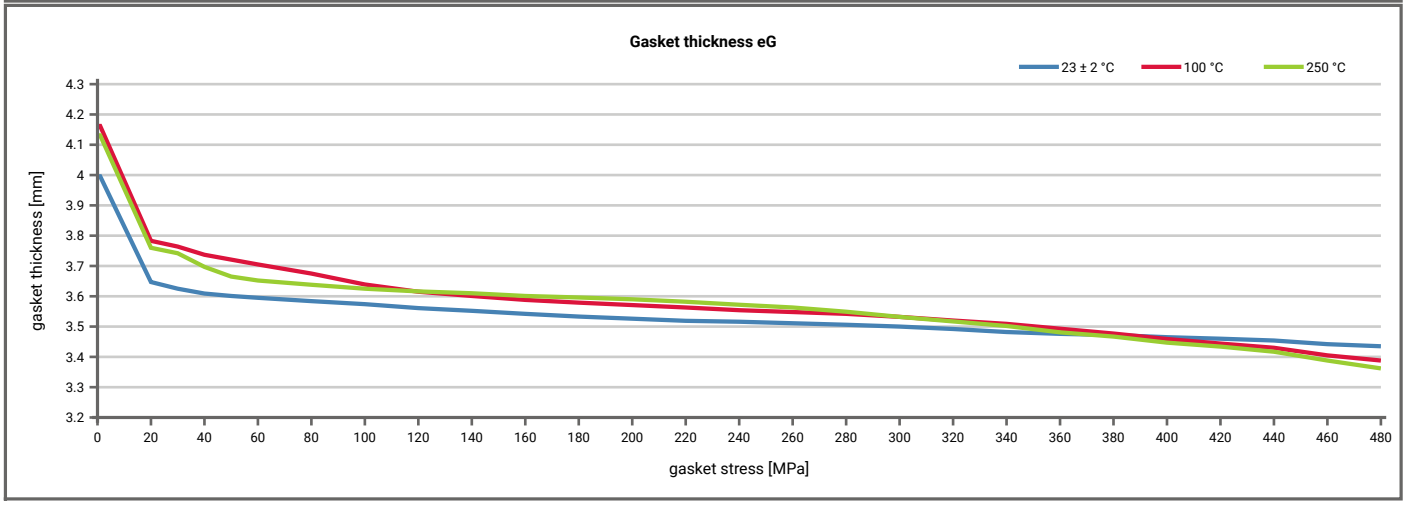


Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: **1**	Creation date of this sheet: **2014-01-20**

Manufacturer address	Kempchen Dichtungstechnik GmbH, Im Waldteich 21, 46147 Oberhausen, DE	According to **DIN EN 13555 2005-2**
Product name	Grooved gasket B25A / B27A / B29A-PTFE unsintered (1.4541 / 0,35 mm)	
Product dimensions	73 x 53 x 4.85 mm (Nonstandard)	

Relaxation ratio P_{QR} for stiffness C = 500 [kN/mm]										
Gasket stress	**23 ± 2 °C**		**Temperature 1 [200 °C]**		**Temperature 2 [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 [90 MPa]	0.94	21	0.74	93	0.66	123				
Stress level 2 [180 MPa]	1.00	4	0.98	14	0.89	82				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied Q_{smax}										
P_{QR} at Q_{smax}	1.00	0	0.99	19	0.98	38				
Q_{smax}	480 MPa		480 MPa		480 MPa					

Sekant unloading modulus of the gasket E_G [MPa] and gasket thickness e_G [mm]										
Gasket stress [MPa]	**23 ± 2 °C**		**Temperature 1 [100 °C]**		**Temperature 2 [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	3.996	0	4.162	0	4.131				
1	0	3.996	0	4.162	0	4.131				
20	3053	3.647	4597	3.783	4053	3.760				
30	5322	3.625	6044	3.764	6451	3.742				
40	5674	3.609	8393	3.737	8003	3.697				
50	6502	3.601	10076	3.721	10199	3.665				
60	7983	3.595	11839	3.705	14370	3.652				
80	9576	3.584	14501	3.675	12176	3.638				
100	10881	3.574	20571	3.639	12661	3.625				
120	11715	3.561	18175	3.615	15507	3.616				
140	15751	3.552	17617	3.601	19272	3.610				
160	15146	3.542	16112	3.588	18875	3.601				
180	15484	3.533	17531	3.579	20081	3.596				
200	16221	3.526	19405	3.571	23067	3.590				
220	17041	3.519	19826	3.563	22613	3.582				
240	18812	3.516	19065	3.554	19433	3.572				
260	19555	3.511	21203	3.548	21742	3.563				
280	20001	3.506	24167	3.542	20479	3.549				
300	19715	3.500	22103	3.532	19395	3.532				
320	18653	3.492	22794	3.520	21218	3.517				
340	17377	3.482	24166	3.509	20431	3.502				
360	16730	3.476	23311	3.493	18740	3.481				
380	16921	3.472	22314	3.477	19170	3.467				
400	16977	3.465	20976	3.459	17945	3.447				
420	18669	3.460	22458	3.444	18457	3.434				
440	20410	3.454	23457	3.430	21575	3.417				
460	19390	3.442	23409	3.405	17928	3.388				
480	19818	3.435	21282	3.388	21378	3.362				



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