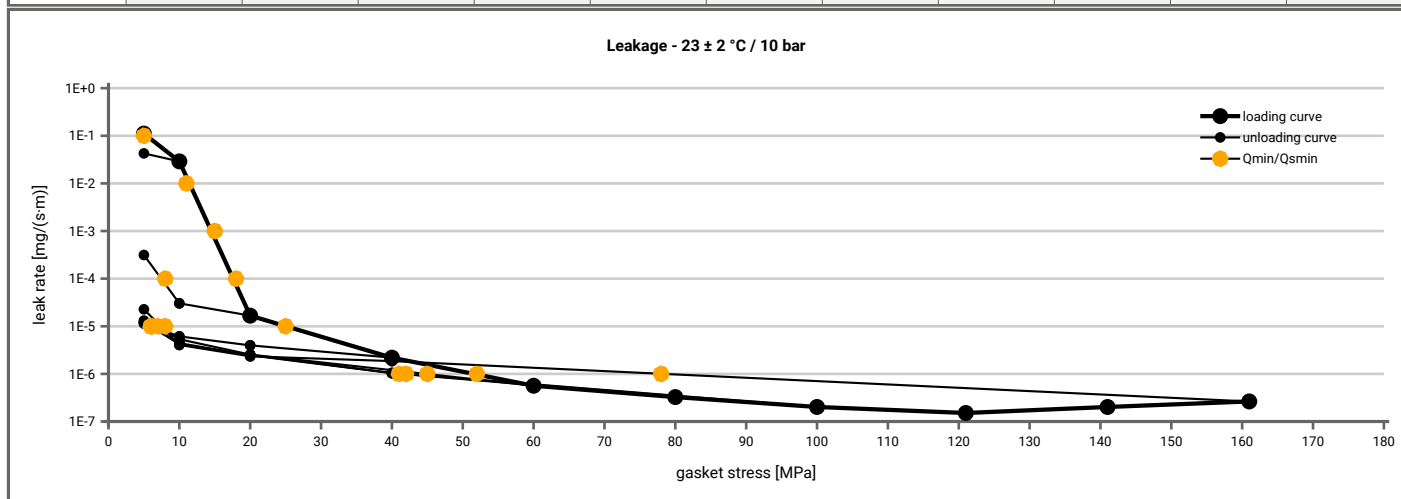
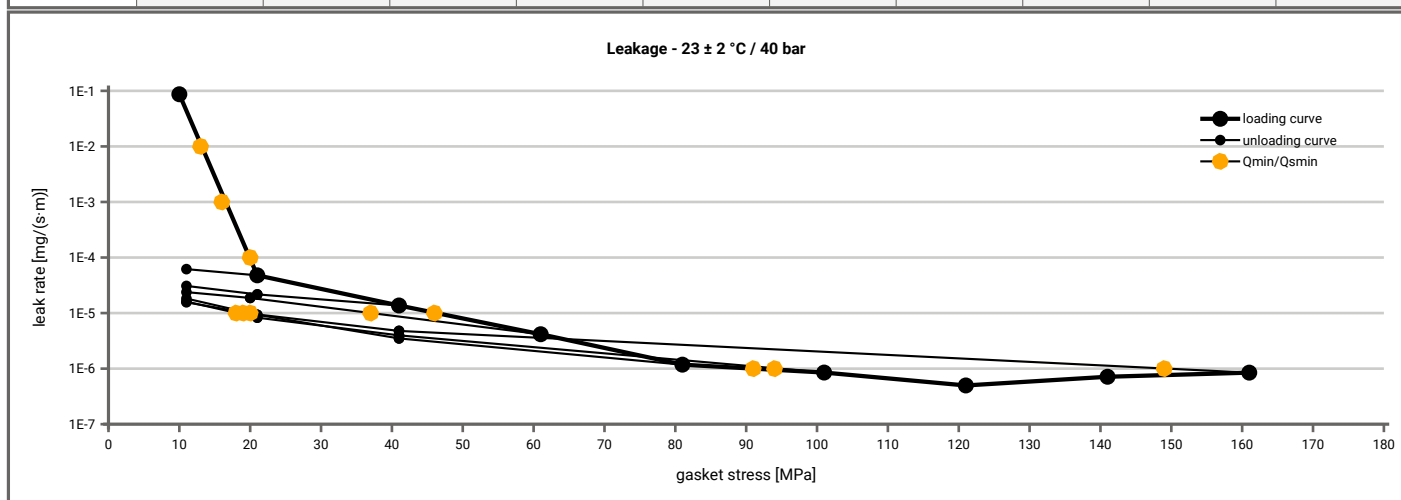


Manufacturer address	Durlon, 399 College Street E., Belleville, ON K8N 5S7, CA	According to DIN EN 13555 2014-7
Product name	Durlon 9000	
Product dimensions	92 x 49 x 2 mm (DIN EN 1514-1 1997-8)	

Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for $p = 10$ bar ($T = 23 \pm 2$ °C)											
L [mg/(s·m)]	$Q_{min(L)}$ [MPa]	$Q_{smin(L)}$ [MPa]									
		$Q_A = 5.4$ [MPa]	$Q_A = 10$ [MPa]	$Q_A = 21$ [MPa]	$Q_A = 41$ [MPa]	$Q_A = 61$ [MPa]	$Q_A = 81$ [MPa]	$Q_A = 101$ [MPa]	$Q_A = 121$ [MPa]	$Q_A = 141$ [MPa]	$Q_A = 161$ [MPa]
1E-0	5		6	6	6	6	6	6			6
1E-1	6		6	6	6	6	6	6			6
1E-2	12			6	6	6	6	6			6
1E-3	15			6	6	6	6	6			6
1E-4	18			8	6	6	6	6			6
1E-5	26				7	7	7	7			8
1E-6	52					45	42	42			79
1E-7											
1E-8											



Minimum stress to seal $Q_{\min(L)}$ (at assembly), $Q_{s\min(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)										
L [mg/(s·m)]	$Q_{\min(L)}$ [MPa]	$Q_{s\min(L)}$ [MPa]								
		$Q_A = 11$ [MPa]	$Q_A = 21$ [MPa]	$Q_A = 41$ [MPa]	$Q_A = 61$ [MPa]	$Q_A = 81$ [MPa]	$Q_A = 101$ [MPa]	$Q_A = 121$ [MPa]	$Q_A = 141$ [MPa]	$Q_A = 161$ [MPa]
1E-0	11		11	11	11	11	11			11
1E-1	11		11	11	11	11	11			11
1E-2	14		11	11	11	11	11			11
1E-3	17		11	11	11	11	11			11
1E-4	20		11	11	11	11	11			11
1E-5	46				37	20	18			20
1E-6	91						95			149
1E-7										
1E-8										

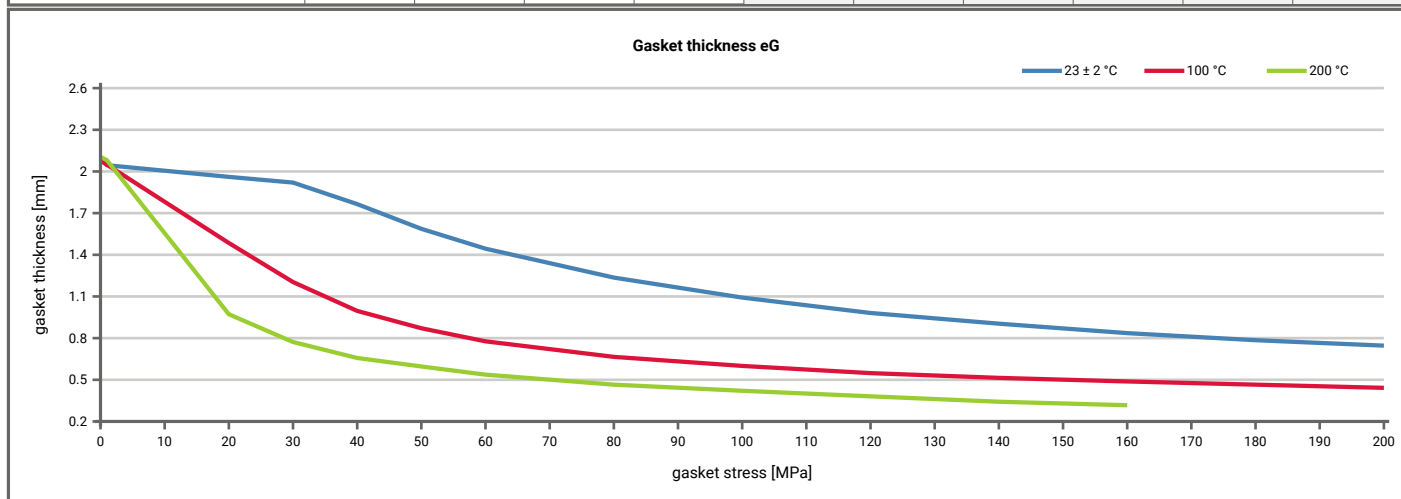


Note: the content of darkened cells was not determined respectively is unnecessary	Rev.-No.: 1	Creation date of this sheet: 2020-12-23
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Manufacturer address	Durlon, 399 College Street E., Belleville, ON K8N 5S7, CA	According to DIN EN 13555 2014-7
Product name	Durlon 9000	
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 [100 °C]		Temperature 2 [200 °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 [30 MPa]	0.80	50	0.41	150	0.25	190				
Stress level 2 [50 MPa]	0.77	97	0.39	258	0.26	313				
P_{QR} and Δe_{Gc} at maximum gasket stress to be applied (Q_{smax})										
P_{QR} at Q_{smax}	0.91	151	0.69	520	0.62	510				
Q_{smax}	200 MPa		200 MPa		160 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 [200 °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	2.085	0	2.080	0	2.105				
1	0	2.045	0	2.049	0	2.081				
20	1673	1.961	1052	1.485	646	0.972				
30	3863	1.920	1796	1.204	1034	0.772				
40	3099	1.765	2791	0.996	1197	0.657				
50	3861	1.587	6685	0.871	2028	0.596				
60	8027	1.444	6239	0.777	1171	0.537				
80	5313	1.236	3891	0.665	1346	0.465				
100	6763	1.092	3305	0.600	1658	0.421				
120	7318	0.981	3601	0.548	1923	0.381				
140	4955	0.904	4438	0.514	1567	0.342				
160	4862	0.836	4289	0.488	3609	0.317				
180	4318	0.785	4429	0.465						
200	5662	0.746	4108	0.442						



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