

Teadit International Produktions GmbH  
**24B**  
 gasket tape - PTFE - 120 x 110 x 2,0 mm



**Maximum allowable gasket stress  $Q_{Smax}$**

T [°C]	25	150	230			
$Q_{Smax}$ [MPa]	550	300	250			

**Modulus of elasticity  $E_G$  and gasket thickness  $e_G$**

T [°C]	25		150		230				
	$Q_A$ [MPa]	$e_G$ [mm]	$E_G$ [MPa]	$e_G$ [mm]	$E_G$ [MPa]	$e_G$ [mm]			
1	1,188	-	1,183	-	1,144	-			
20	0,577	2995	0,341	1647	0,271	3236			
30	0,509	1538	0,289	5019	0,220	1568			
40	0,450	1270	0,251	4318	0,190	1053			
50	0,412	1310	0,225	3503	0,169	898			
60	0,385	1514	0,206	2877	0,153	767			
80	0,350	1871	0,178	2457	0,130	646			
100	0,324	2171	0,159	1977	0,114	616			
120	0,305	2363	0,144	1770	0,101	605			
140	0,288	2391	0,131	1606	0,091	585			
160	0,275	2369	0,120	1521	0,083	570			
180	0,263	2276	0,111	1415	0,077	573			
200	0,253	2205	0,103	1401	0,071	557			
220	0,244	2156	0,096	1294	0,066	536			
240	0,235	2129	0,090	1284	0,061	541			
260	0,227	2104	0,084	1224	x	x			
280	0,220	2069	0,079	1204	x	x			
300	0,213	2024	0,075	1175	x	x			
320	0,207	2002	x	x	x	x			
340	0,201	1988	x	x	x	x			
360	0,195	1965	x	x	x	x			
380	0,189	1937	x	x	x	x			
400	0,184	1950	x	x	x	x			
420	0,179	1927	x	x	x	x			
440	0,174	1869	x	x	x	x			
460	0,169	1854	x	x	x	x			
480	0,165	1834	x	x	x	x			
500	0,160	1817	x	x	x	x			
Intrusion	-	-	-	-	-	-			

**Creep relaxation factor  $P_{QR}$  for stiffness  $C = 500$  kN/mm**

T [°C]	25			150			230					
	$Q_A$ [MPa]	$P_{QR}$ [-]	Intrusion	$Q_A$ [MPa]	$P_{QR}$ [-]	Intrusion	$Q_A$ [MPa]	$P_{QR}$ [-]	Intrusion			
30	0,85	-	-	0,52	-	-	0,40	-	-			
50	0,91	-	-	0,61	-	-	0,52	-	-			
80	0,95	-	-	0,72	-	-	0,64	-	-			
250	-	-	-	-	-	-	0,89	-	-			
300	-	-	-	0,93	-	-	x	-	-			
550	0,99	-	-	x	-	-	x	-	-			

**Minimum required gasket stress in assembly  $Q_{min(L)}$**

L [mg/m/s]	$10^0$			$10^{-1}$			$10^{-2}$			$10^{-3}$			$10^{-4}$			$10^{-5}$			$10^{-6}$			$10^{-7}$			
	p [bar]	10	25	40	10	25	40	10	25	40	10	25	40	10	25	40	10	25	40	10	25	40	10	25	40
$Q_{min(L)}$ [MPa]	10	10	10	10	16	17	17	23	24	22	28	30	27	34	35	35	40	44	50	71	x	x	x	x	x

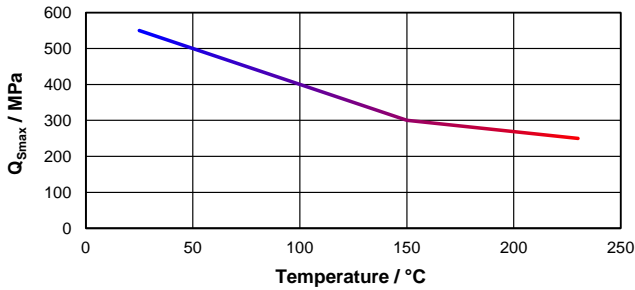
**Minimum required gasket stress in service  $Q_{Smin(L)}$  [MPa]**

$Q_A$ [MPa]	$10^0$			$10^{-1}$			$10^{-2}$			$10^{-3}$			$10^{-4}$			$10^{-5}$			$10^{-6}$			$10^{-7}$		
	L [mg/m/s]	p [bar]	10	25	40	10	25	40	10	25	40	10	25	40	10	25	40	10	25	40	10	25	40	
20	10	10	10	10	10	10	10	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
30	10	10	10	10	10	10	10	10	10	10	10	10	10	10	x	x	x	x	x	x	x	x	x	x
40	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	33	x	x	x	x	x	x	x	x
60	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	x	x	x	x	x	x
80	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	40	x	x	x	x
100	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	56	x	x	x	x	x

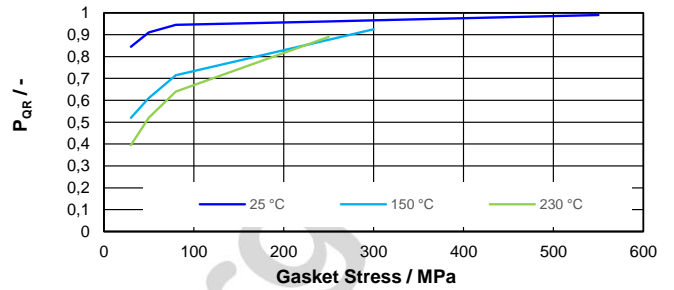
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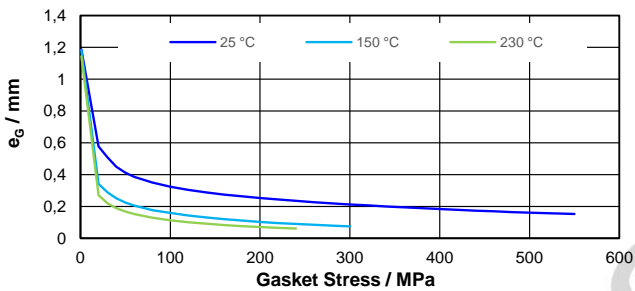
Maximum allowable Gasket Stress  $Q_{Smax}$



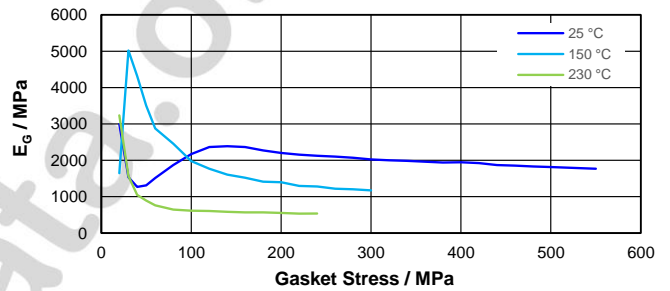
Creep Relaxation Factor  $P_{QR}$



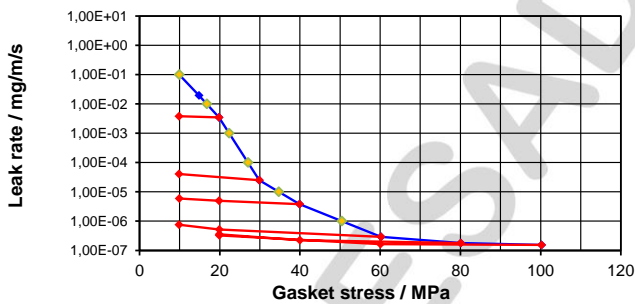
Gasket Thickness  $e_G$



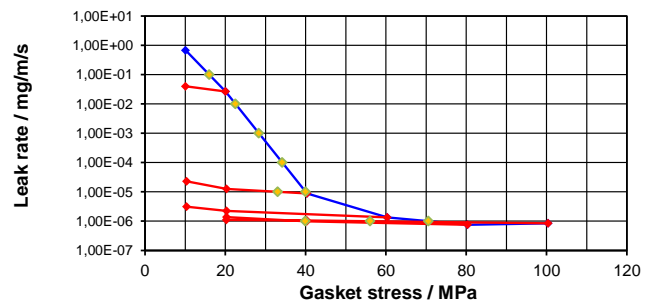
Modulus of Elasticity  $E_G$



10 bar



25 bar



40 bar

