

Burachem Blue 9655/B

Standards and approvals

- FDA 21CFR 177.1550
- TA-Luft

Forms of supply

- Sheets 1,200 x 1,200 up to 1.0 mm thickness
- Sheets 1,500 x 1,500 from 1.5 mm thickness
- Standard thickness: 1.0 / 1.5 / 2.0 / 3.0 mm
- Cut rings, closed or in segments

Recommended applications

- Process industry
- Petrochemical industry
- Chemical industry
- Pharmaceutical industry
- Food and beverage industry
- Covers
- Hatches
- Reactor vessels
- Process vessels
- Flange connections
- Pipe connections
- Maintenance seals

Physical properties (Gasket thickness 2.00 mm)

Property	Standard	Unity	Value*
Identification	DIN 28 091-3		TF - G - O
Density	DIN 28 090-2	[g/cm³]	1.70
Tensile strength	DIN 52 910	[N/mm²]	16
Residual stress $\sigma_{dE/16}$	DIN 52 913		
150°C, 30 N/mm², 16h		[N/mm²]	12
Compressibility	ASTM F 36 J	[%]	25
Recovery	ASTM F 36 J	[%]	40
Cold compressibility ϵ_{KSW}	DIN 28 090-2	[%]	20
Cold recovery ϵ_{KRW}	DIN 28 090-2	[%]	4
Hotcreep $\epsilon_{WSW/150}$	DIN 28 090-2	[%]	45
Hot recovery $\epsilon_{WRW/150}$	DIN 28 090-2	[%]	6
Leakage rate	DIN 3535-6	[mg/(m·s)]	< 0.015
Specific leakage rate acc. TA Luft	VDI 2440 / TA Luft	[mbar·l/(s·m)]	$5.8 \cdot 10^{-6}$
Helium, 1 bar, 30 MPA			

Gasket Characteristics k₀ x k_D

AD-Merkblatt B7 / DIN V 2505			
colour		blue	
Thickness [mm]	Pressure [bar]	k ₀ x k _D [Nmm]	k ₁ [mm]
2.0	40	13 x b _D	1.1 x b _D

Gasket characteristics acc. DIN EN 13555 (02/2005)

T [°C]	Tightness- class L	Q _{min(L)} [N/mm²]				Q _{Smin(L)} [N/mm²]														
						Q [N/mm²]					Q [N/mm²]					Q [N/mm²]				
						10	20	40	60	80	10	20	40	60	80	10	20	40	60	80
		P _i [bar]				P _i [bar]					P _i [bar]					P _i [bar]				
		10	20	40		10					20					40				
	L _{1,0}	<5	6	<10		<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	<10	<10	
	L _{0,1}	6	8	<10		<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10	<10	<10	
RT	L _{0,01}	8	10	11		5.5	<5	<5	<5	<5	9	<5	<5	<5	10	<10	<10	<10	<10	
	L _{0,001}	11	13	15		---	<5	<5	<5	<5	---	<5	<5	<5	---	<5	<5	<5	<5	
Q _{Smax} [N/mm²]		P _{0R} Stiffness 500 kN/mm				E ₆ [N/mm²]														
		Q [N/mm²]				Q [N/mm²]														
		10	25			10	20	30	40	50	60	80								
RT	140	0.86	0.71			816	1068	1320	1572	1824	2076	2580								
100	120	0.65	0.41			643	817	991	1165	1339	1513	1862								
200	80	0.44	0.25			407	505	603	701	800	898	1094								
260	50	0.27	0.18			333	411	490	568	646	---	---								