

Burachem White 9655/W

Standards and approvals

- FDA 21CFR 177.1550
- BAM (O₂) 83 bar/250 °C
- 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, complete or in segments

Recommended applications

- Process industry
- Petrochemical industry
- Chemical industry
- Pharmaceutical industry
- Pulp and paper industry
- Food and beverage industry
- Sugar industry
- Agitators
- Mixers
- Dryers
- Filters
- Refiners
- 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 - M - O |
| Density | DIN 28 090-2 | [g/cm ³] | 2.90 |
| Tensile strength | DIN 52 910 | [N/mm ²] | 18 |
| Residual stress $\sigma_{dE/16}$ | DIN 52 913 | | |
| 150°C, 30 N/mm ² , 16h | | [N/mm ²] | 14 |
| Compressibility | ASTM F 36 J | [%] | 3 |
| Recovery | ASTM F 36 J | [%] | 45 |
| Cold compressibility ϵ_{KSW} | DIN 28 090-2 | [%] | 3 |
| Cold recovery ϵ_{KRW} | DIN 28 090-2 | [%] | 1 |
| Hotcreep $\epsilon_{WSW/150}$ | DIN 28 090-2 | [%] | 40 |
| Hot recovery $\epsilon_{WRW/150}$ | DIN 28 090-2 | [%] | 4 |
| Leakage rate | DIN 3535-6 | [mg/(m·s)] | < 0.015 |
| Specific leakage rate acc. TA Luft | VDI 2440 / TA Luft | [mbar·l/(s·m)] | 1.7* 10 ⁻⁶ |
| Helium, 1 bar, 30 MPA | | | |

Gasket Characteristics k0 x KD

| AD-Merkblatt B7 / DIN V 2505 | | | |
|------------------------------|----------------|---------------------------------------|----------------------|
| colour | | white | |
| Thickness [mm] | Pressure [bar] | k ₀ x K _D [Nmm] | k ₁ [mm] |
| 2.0 | 40 | 15 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/mm ²] | | | | Q _{Smin(L)} [N/mm ²] | | | | | | | | | | | | | |
|--------|--------------------|--|------|-------------------------------------|------|---|------|------|------|------------------------|-----|-----|-----|------------------------|-----|-----|-----|-----|-----|
| | | 10 | 20 | 40 | 80 | Q [N/mm ²] | | | | Q [N/mm ²] | | | | Q [N/mm ²] | | | | | |
| | | P _i [bar] | | | | P _i [bar] | | | | P _i [bar] | | | | P _i [bar] | | | | | |
| | | 10 | | | | 20 | | | | 40 | | | | 80 | | | | | |
| RT | L _{1,0} | 5 | <10 | 10 | <20 | <5 | <5 | <5 | <5 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| | L _{0,1} | 8 | <10 | 13 | 21 | <5 | <5 | <5 | <5 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| | L _{0,01} | 11 | 12 | 16 | 25 | <5 | <5 | <5 | <5 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| | L _{0,001} | 14 | 15 | 18 | 29 | <5 | <5 | <5 | <5 | <10 | <10 | <10 | <10 | 15 | <10 | <10 | <10 | <10 | <10 |
| | | Q _{Smax} [N/mm ²] | | P _{QR} Stiffness 500 kN/mm | | E _G [N/mm ²] | | | | | | | | | | | | | |
| | | Q [N/mm ²] | | Q [N/mm ²] | | Q [N/mm ²] | | | | | | | | | | | | | |
| | | 10 | | 25 | | 10 | | 20 | | 30 | | 40 | | 50 | | 60 | | 80 | |
| RT | >200 | 0.93 | 0.93 | 1936 | 2191 | 2446 | 2702 | 2957 | 3212 | 3723 | | | | | | | | | |
| 100 | 160 | 0.88 | 0.56 | 1178 | 1371 | 1564 | 1757 | 1949 | 2142 | 2528 | | | | | | | | | |
| 200 | 140 | 0.66 | 0.35 | 725 | 845 | 966 | 1086 | 1206 | 1327 | 1567 | | | | | | | | | |
| 260 | 80 | 0.46 | 0.24 | 597 | 696 | 795 | 894 | 993 | 1092 | 1290 | | | | | | | | | |

Test sample: DN40/PN40 acc. EN 1514-1: 49 x 92 mm