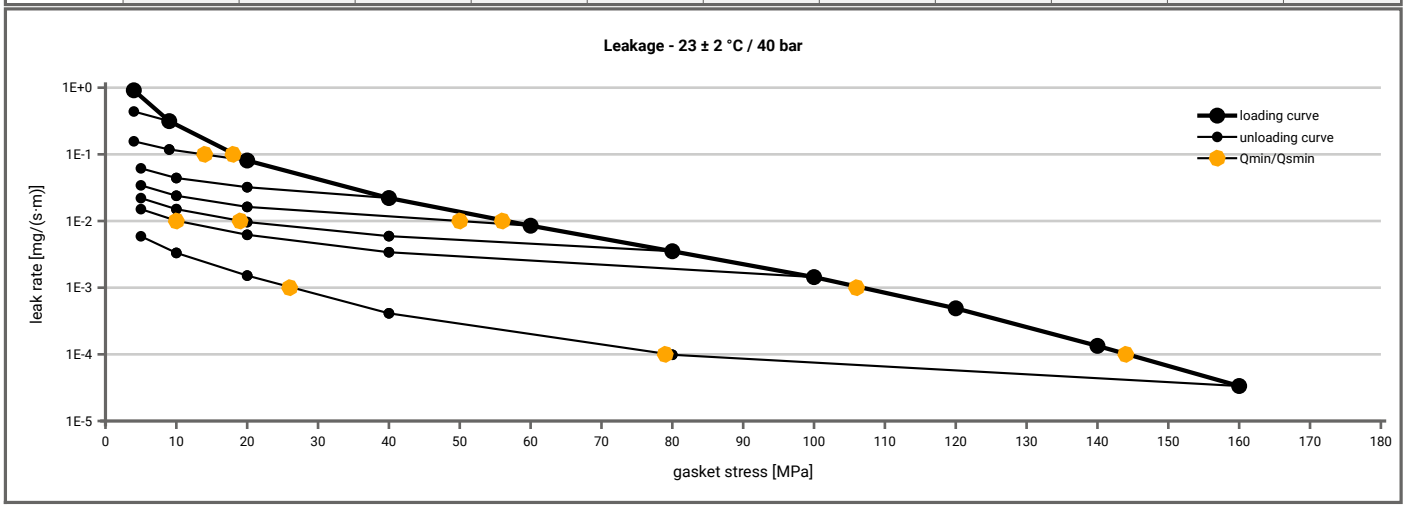
| | | |
|---|---|---|
| **Manufacturer address** | KRAJ Sp. z o.o., Kukulek 42, 40-533 Katowice, PL | According to **DIN EN 13555 2014-7** |
| **Product name** | KRAJ KRG2 | |
| **Product dimensions** | 92 x 49 x 2 mm (DIN EN 1514-1 1997-8) | |

**Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)**

| L [mg/(s·m)] | $Q_{min(L)}$ [MPa] | $Q_{smin(L)}$ [MPa] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | $Q_A$ = 5 [MPa] | $Q_A$ = 10 [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 | 5 | | 5 | 5 | 5 | 5 | 5 | 5 | | | 5 |
| 1E-1 | 18 | | | 14 | 5 | 5 | 5 | 5 | | | 5 |
| 1E-2 | 57 | | | | | 50 | 19 | 10 | | | 5 |
| 1E-3 | 107 | | | | | | | | | | 26 |
| 1E-4 | 144 | | | | | | | | | | 80 |
| 1E-5 | | | | | | | | | | | |
| 1E-6 | | | | | | | | | | | |
| 1E-7 | | | | | | | | | | | |

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|---|---|---|
| Note: the content of darkened cells was not determined respectively is unnecessary | Rev.-No.: **1** | Creation date of this sheet: **2025-06-27** |

| | | |
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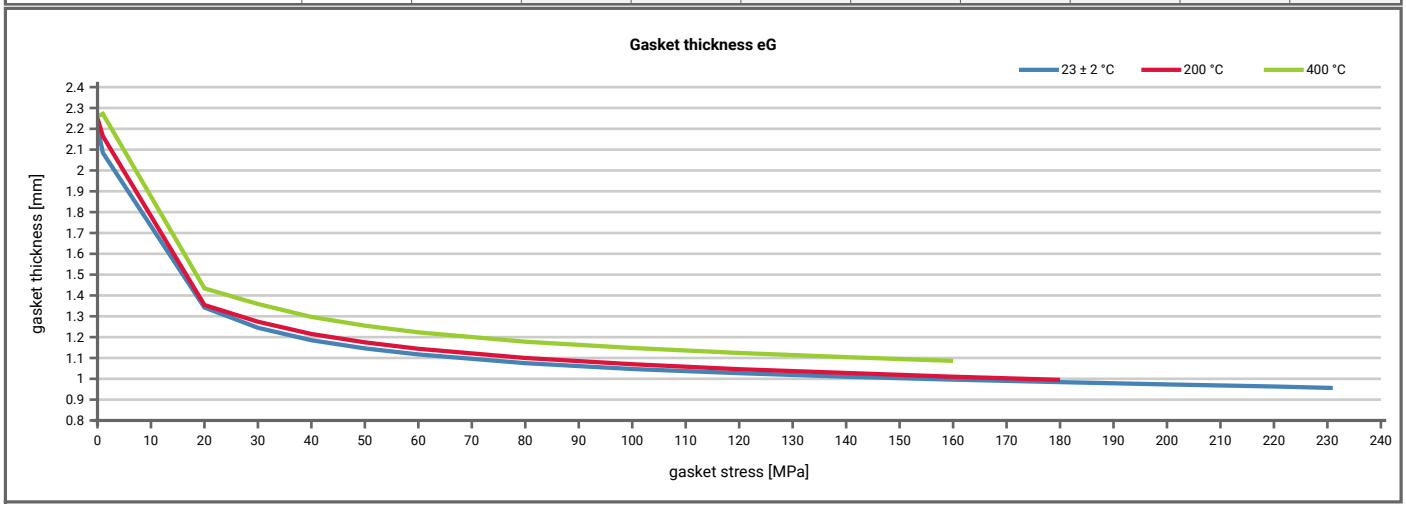
| **Product name** | KRAJ KRG2 | |
| **Product dimensions** | 92 x 49 x 2 mm (DIN EN 1514-1 1997-8) | |

| **Relaxation ratio $P_{QR}$ for stiffness $C$ = 500 [kN/mm]** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Gasket stress** | **23 ± 2 °C** | | **Temperature 1 [200 °C]** | | **Temperature 2 [400 °C]** | | | | | |
| | **$P_{QR}$** | **$\Delta e_{Gc}$ [µm]** | **$P_{QR}$** | **$\Delta e_{Gc}$ [µm]** | **$P_{QR}$** | **$\Delta e_{Gc}$ [µm]** | **$P_{QR}$** | **$\Delta e_{Gc}$ [µm]** | **$P_{QR}$** | **$\Delta e_{Gc}$ [µm]** |
| Stress level 1 [30 MPa] | 0.98 | 4 | 0.94 | 15 | 0.91 | 24 | | | | |
| Stress level 2 [50 MPa] | 1.00 | 4 | 0.97 | 13 | 0.95 | 20 | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| **$P_{QR}$ and $\Delta e_{Gc}$ at maximum gasket stress to be applied ($Q_{smax}$)** | | | | | | | | | | |
| **$P_{QR}$ at $Q_{smax}$** | 0.99 | 2 | 0.99 | 13 | 0.99 | 20 | | | | |
| **$Q_{smax}$** | 232 MPa | | 180 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 [200 °C]** | | **Temperature 2 [400 °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 | 2.210 | 0 | 2.250 | 0 | 2.260 | | | | |
| 1 | 0 | 2.085 | 0 | 2.165 | 0 | 2.272 | | | | |
| 20 | 492 | 1.342 | 522 | 1.354 | 513 | 1.434 | | | | |
| 30 | 733 | 1.245 | 799 | 1.274 | 754 | 1.359 | | | | |
| 40 | 969 | 1.185 | 1034 | 1.215 | 954 | 1.297 | | | | |
| 50 | 1258 | 1.146 | 1300 | 1.175 | 1176 | 1.255 | | | | |
| 60 | 1554 | 1.117 | 1486 | 1.144 | 1390 | 1.223 | | | | |
| 80 | 2156 | 1.075 | 1991 | 1.100 | 1926 | 1.178 | | | | |
| 100 | 2797 | 1.047 | 2531 | 1.070 | 2562 | 1.148 | | | | |
| 120 | 3383 | 1.027 | 3102 | 1.046 | 3180 | 1.124 | | | | |
| 140 | 4058 | 1.010 | 3842 | 1.028 | 3855 | 1.104 | | | | |
| 160 | 4637 | 0.996 | 4165 | 1.010 | 4330 | 1.086 | | | | |
| 180 | 5265 | 0.984 | 4721 | 0.995 | | | | | | |
| 200 | 5858 | 0.973 | | | | | | | | |
| 220 | 6354 | 0.963 | | | | | | | | |
| 231 | 6492 | 0.956 | | | | | | | | |

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