

| | | | | |
|-------------|---------------|-----------------|-----------------|------------------------------|
| QF50 | 581409 | $n_d = 1.58144$ | $\nu_d = 40.89$ | $n_F - n_C = 0.014221$ |
| | | $n_e = 1.58481$ | $\nu_e = 40.61$ | $n_{F'} - n_{C'} = 0.014401$ |

| Refractive Indices | | | Relative Partial Dispersions | | | | Internal Transmittance | | |
|---|----------------|--|---------------------------------------|--------|-------------|--------|------------------------|-------------|--------------|
| | λ (nm) | | $P_{d,c}$ | 0.2959 | $P'_{d,c'}$ | 0.2462 | λ (nm) | τ 5 mm | τ 10 mm |
| n_t | 1014.0 | 1.56671 | $P_{e,d}$ | 0.2373 | $P'_{e,d}$ | 0.2343 | 2400 | 0.88 | 0.77 |
| n_r | 706.5 | 1.57489 | $P_{g,F}$ | 0.5749 | $P'_{g,F'}$ | 0.5094 | 2200 | 0.911 | 0.830 |
| n_c | 656.3 | 1.57723 | | | | | 2000 | 0.955 | 0.912 |
| $n_{c'}$ | 643.8 | 1.57789 | Chemical Properties | | | | 1800 | 0.981 | 0.963 |
| n_{He-Ne} | 632.8 | 1.57851 | | | Grade | | 1600 | 0.997 | 0.995 |
| n_D | 589.3 | 1.58131 | RC(S) | | 3 | | 1400 | 0.999 | 0.998 |
| n_d | 587.6 | 1.58144 | RA(S) | | 1 | | 1200 | 0.999 | 0.998 |
| n_e | 546.1 | 1.58481 | D_W | | 1 | | 1060 | 0.999 | 0.998 |
| n_F | 486.1 | 1.59145 | D_A | | 1 | | 1000 | 0.999 | 0.998 |
| $n_{F'}$ | 480.0 | 1.59229 | | | | | 950 | 0.999 | 0.998 |
| n_g | 435.8 | 1.59963 | Thermal Properties | | | | 900 | 0.999 | 0.998 |
| n_h | 404.7 | 1.60666 | T_g (°C) | | 422 | | 850 | 0.998 | 0.997 |
| n_i | 365.0 | 1.61923 | T_s (°C) | | 480 | | 800 | 0.998 | 0.996 |
| | | | $T_{10}^{14.5}$ (°C) | | 366 | | 700 | 0.998 | 0.996 |
| | | | T_{10}^{13} (°C) | | 406 | | 650 | 0.997 | 0.995 |
| | | | $T_{10}^{7.6}$ (°C) | | 584 | | 600 | 0.997 | 0.995 |
| | | | $\alpha_{20/120^\circ C}(10^{-7}/K)$ | | 92 | | 550 | 0.997 | 0.995 |
| | | | $\alpha_{100/300^\circ C}(10^{-7}/K)$ | | 111 | | 500 | 0.997 | 0.994 |
| | | | λ (W/m · K) | | | | 480 | 0.996 | 0.993 |
| | | | | | | | 460 | 0.996 | 0.993 |
| | | | Mechanical Properties | | | | 440 | 0.996 | 0.992 |
| | | | H_K (10^7 Pa) | | 407 | | 420 | 0.995 | 0.991 |
| | | | F_A | | 89 | | 400 | 0.995 | 0.991 |
| | | | E (10^7 Pa) | | 5980 | | 390 | 0.994 | 0.988 |
| | | | G (10^7 Pa) | | 2444 | | 380 | 0.992 | 0.984 |
| | | | μ | | 0.224 | | 370 | 0.990 | 0.981 |
| | | | B (10^{-12} /Pa) | | | | 360 | 0.986 | 0.972 |
| | | | | | | | 350 | 0.975 | 0.950 |
| | | | Other Properties | | | | 340 | 0.944 | 0.892 |
| | | | ρ (g/cm ³) | | 3.23 | | 330 | 0.85 | 0.72 |
| | | | | | | | | | |
| Temperature Coefficients of Refractive Index | | | | | | | | | |
| Rang of Temperature | | dn/dt relative($10^{-6}/^\circ C$) | | | | | | | |
| | | t | C' | d | e | F' | g | | |
| -40~-20 | | 0.4 | 0.5 | 1.0 | 1.1 | 1.8 | 2.6 | | |
| -20~0 | | 0.8 | 1.2 | 1.6 | 1.8 | 2.3 | 3.0 | | |
| 0~20 | | 0.6 | 1.2 | 1.6 | 1.8 | 2.6 | 3.1 | | |
| 20~40 | | 0.9 | 1.4 | 1.7 | 2.1 | 2.6 | 3.3 | | |
| 40~60 | | 0.9 | 1.4 | 1.9 | 2.1 | 2.9 | 3.7 | | |
| 60~80 | | 0.9 | 1.7 | 2.0 | 2.4 | 3.0 | 3.8 | | |
| | | | | | | | | | |
| Coloration Code | | | | | | | | | |
| λ_{80}/λ_5 | | 34/31 | | | | | | | |
| | | | | | | | | | |