

| | | | | |
|----------------|---------------|---------------|---------------|------------------------------|
| D-LaK70 | 669554 | $n_d=1.66910$ | $\nu_d=55.39$ | $n_F - n_C = 0.012080$ |
| | | $n_e=1.67197$ | $\nu_e=55.22$ | $n_{F'} - n_{C'} = 0.012170$ |

| Refractive Indices | | | Relative Partial Dispersions | | | | Internal Transmittance | | |
|---|--------------------------------------|---------|---------------------------------------|--------|-------------|--------|--------------------------|-------------|--------------|
| | λ (nm) | | $P_{d,c}$ | 0.3046 | $P'_{d,c'}$ | 0.2531 | λ (nm) | τ 5 mm | τ 10 mm |
| n_t | 1014.0 | 1.65543 | $P_{e,d}$ | 0.2376 | $P'_{e,d}$ | 0.2358 | 2400 | 0.86 | 0.74 |
| n_r | 706.5 | 1.66331 | $P_{g,F}$ | 0.5454 | $P'_{g,F'}$ | 0.4846 | 2200 | 0.963 | 0.928 |
| n_c | 656.3 | 1.66542 | | | | | 2000 | 0.988 | 0.976 |
| $n_{c'}$ | 643.8 | 1.66602 | Chemical Properties | | | | 1800 | 0.997 | 0.994 |
| n_{He-Ne} | 632.8 | 1.66656 | | | Grade | | 1600 | 0.999 | 0.998 |
| n_D | 589.3 | 1.66899 | RC(S) | | 1 | | 1400 | 0.999 | 0.998 |
| n_d | 587.6 | 1.66910 | RA(S) | | 3 | | 1200 | 0.999 | 0.998 |
| n_e | 546.1 | 1.67197 | D _W | | 1 | | 1060 | 0.999 | 0.998 |
| n_F | 486.1 | 1.67750 | D _A | | 6 | | 1000 | 0.999 | 0.998 |
| $n_{F'}$ | 480.0 | 1.67819 | | | | | 950 | 0.999 | 0.998 |
| n_g | 435.8 | 1.68409 | Thermal Properties | | | | 900 | 0.999 | 0.998 |
| n_h | 404.7 | 1.68956 | T _g (°C) | | 531 | | 850 | 0.999 | 0.998 |
| n_i | 365.0 | 1.69891 | T _s (°C) | | 567 | | 800 | 0.999 | 0.998 |
| | | | T ₁₀ ^{14.5} (°C) | | 488 | | 700 | 0.998 | 0.997 |
| | | | T ₁₀ ¹³ (°C) | | 518 | | 650 | 0.998 | 0.997 |
| | | | T ₁₀ ^{7.6} (°C) | | 626 | | 600 | 0.998 | 0.996 |
| | | | $\alpha_{20/120^\circ C}(10^{-7}/K)$ | | 77 | | 550 | 0.998 | 0.996 |
| | | | $\alpha_{100/300^\circ C}(10^{-7}/K)$ | | 91 | | 500 | 0.997 | 0.995 |
| | | | λ (W/m · K) | | | | 480 | 0.997 | 0.994 |
| | | | | | | | 460 | 0.996 | 0.993 |
| Constants of Dispersion Formula | | | Mechanical Properties | | | | 440 | 0.996 | 0.992 |
| A ₀ | 2.7328195 | | H _K (10 ⁷ Pa) | | 660 | | 420 | 0.995 | 0.990 |
| A ₁ | -1.1413797 × 10 ⁻² | | F _A | | 135 | | 400 | 0.993 | 0.986 |
| A ₂ | 2.0275595 × 10 ⁻² | | E (10 ⁷ Pa) | | 11335 | | 390 | 0.995 | 0.990 |
| A ₃ | -4.7830895 × 10 ⁻⁴ | | G (10 ⁷ Pa) | | 4415 | | 380 | 0.993 | 0.986 |
| A ₄ | 1.1015826 × 10 ⁻⁴ | | μ | | 0.284 | | 370 | 0.981 | 0.963 |
| A ₅ | -5.3028330 × 10 ⁻⁶ | | B (10 ⁻¹² /Pa) | | 1.91 | | 360 | 0.968 | 0.937 |
| | | | | | | | 350 | 0.946 | 0.895 |
| Deviation of Relative Partial Dispersions ΔP from the "Normal Line" | | | Other Properties | | | | 340 | 0.906 | 0.821 |
| $\Delta P_{F,e}$ | -0.0017 | | ρ (g/cm ³) | | 3.35 | | 330 | 0.84 | 0.71 |
| $\Delta P_{g,F}$ | -0.0060 | | | | | | 320 | 0.75 | 0.57 |
| | | | | | | | 310 | 0.65 | 0.42 |
| | | | | | | | 300 | 0.52 | 0.27 |
| | | | | | | | 290 | 0.40 | 0.16 |
| | | | | | | | 280 | 0.28 | 0.08 |
| | | | | | | | | | |
| | | | | | | | Coloration Code | | |
| | | | | | | | λ_{80}/λ_5 | 35/28 | |
| | | | | | | | | | |
| Temperature Coefficients of Refractive Index | | | | | | | | | |
| Rang of Temperature | dn/dt relative(10 ⁻⁶ /°C) | | | | | | | | |
| | t | C' | d | e | F' | g | | | |
| -40~-20 | 1.8 | 1.9 | 2.4 | 2.8 | 3.2 | 3.4 | | | |
| -20~0 | 1.8 | 2.0 | 2.1 | 2.7 | 3.2 | 3.4 | | | |
| 0~20 | 3.0 | 3.5 | 3.5 | 3.6 | 3.8 | 4.5 | | | |
| 20~40 | 2.9 | 3.5 | 3.7 | 3.7 | 4.1 | 4.4 | | | |
| 40~60 | 2.9 | 3.5 | 3.5 | 3.6 | 4.2 | 5.0 | | | |
| 60~80 | 2.7 | 3.8 | 3.9 | 3.9 | 4.6 | 5.0 | | | |