# H-FK61 497816

| | | |
|---|---|---|
| $n_d$ = 1.49700 | $\upsilon_d$ = 81.61 | $n_F - n_C$ = 0.006090 |
| $n_e$ = 1.49845 | $\upsilon_e$ = 81.20 | $n_F - n_{C'}$ = 0.006139 |

| Refractive Indices | | |
|---|---|---|
| | λ(nm) | $n_\lambda$ |
| $n_{2325}$ | 2325.42 | 1.47950 |
| $n_{1970}$ | 1970.09 | 1.48263 |
| $n_{1530}$ | 1529.58 | 1.48606 |
| $n_{1129}$ | 1128.64 | 1.48910 |
| $n_t$ | 1013.98 | 1.49010 |
| $n_s$ | 852.11 | 1.49183 |
| $n_{A'}$ | 768.19 | 1.49301 |
| $n_r$ | 706.52 | 1.49407 |
| $n_C$ | 656.27 | 1.49514 |
| $n_{C'}$ | 643.85 | 1.49543 |
| $n_{He-Ne}$ | 632.80 | 1.49571 |
| $n_D$ | 589.29 | 1.49694 |
| $n_d$ | 587.56 | 1.49700 |
| $n_e$ | 546.07 | 1.49845 |
| $n_F$ | 486.13 | 1.50123 |
| $n_{F'}$ | 479.99 | 1.50157 |
| $n_g$ | 435.84 | 1.50451 |
| $n_h$ | 404.66 | 1.50721 |
| $n_i$ | 365.01 | 1.51173 |

| Constants of Dispersion Formula | |
|---|---|
| $A_0$ | 2.21807952E+00 |
| $A_1$ | -5.67922113E-03 |
| $A_2$ | 8.28756139E-03 |
| $A_3$ | 9.66891434E-05 |
| $A_4$ | 3.56668643E-06 |
| $A_5$ | -3.63065113E-07 |

| Relative Partial Dispersions | | | |
|---|---|---|---|
| $P_{d,C}$ | 0.3054 | $P'_{d,c'}$ | 0.2557 |
| $P_{e,d}$ | 0.2381 | $P'_{e,d}$ | 0.2362 |
| $P_{g,F}$ | 0.5386 | $P'_{g,F'}$ | 0.4788 |

| Chemical Properties (grade) | |
|---|---|
| RC(S) | 1 |
| RA(S) | 2 |
| $D_W$ | 1 |
| $D_A$ | 3 |
| $R_{OH}$(S) | 2 |
| RP(S) | 2 |
| | |

| Thermal Properties | |
|---|---|
| Tg(℃) | 450 |
| Ts(℃) | 488 |
| $T_{10}^{14.5}$(℃) | 421 |
| $T_{10}^{13}$(℃) | 442 |
| $\alpha_{-50/80℃}$($10^{-7}$/K) | 124 |
| $\alpha_{100/300℃}$($10^{-7}$/K) | 152 |
| | |

| Mechanical Properties | |
|---|---|
| HK($10^7$Pa) | 350 |
| $F_A$ | 385 |
| E($10^7$Pa) | 7011 |
| G($10^7$Pa) | 2691 |
| μ | 0.303 |
| B(nm/cm/$10^5$Pa) | 0.750 |

| Density | |
|---|---|
| $\rho$ (g/cm$^3$) | 3.67 |

| Deviation of Relative Partial Dispersions | |
|---|---|
| $\triangle P_{F,e}$ | 0.0113 |
| $\triangle P_{g,F}$ | 0.0305 |
| $\triangle P_{C,t}$ | -0.1080 |
| $\triangle P_{C,s}$ | -0.0528 |

| Internal Transmittance | | |
|---|---|---|
| λ(nm) | τ5mm | τ10mm |
| 2400 | 0.999 | 0.998 |
| 2200 | 0.999 | 0.998 |
| 2000 | 0.999 | 0.998 |
| 1800 | 0.999 | 0.998 |
| 1600 | 0.999 | 0.998 |
| 1400 | 0.999 | 0.998 |
| 1200 | 0.999 | 0.998 |
| 1060 | 0.999 | 0.998 |
| 1000 | 0.999 | 0.998 |
| 900 | 0.999 | 0.998 |
| 850 | 0.999 | 0.998 |
| 800 | 0.999 | 0.998 |
| 750 | 0.999 | 0.998 |
| 700 | 0.999 | 0.998 |
| 650 | 0.999 | 0.998 |
| 600 | 0.999 | 0.998 |
| 550 | 0.999 | 0.998 |
| 500 | 0.999 | 0.998 |
| 480 | 0.999 | 0.998 |
| 460 | 0.999 | 0.998 |
| 440 | 0.999 | 0.998 |
| 420 | 0.999 | 0.998 |
| 400 | 0.999 | 0.998 |
| 390 | 0.999 | 0.998 |
| 380 | 0.999 | 0.998 |
| 370 | 0.997 | 0.995 |
| 360 | 0.994 | 0.991 |
| 350 | 0.988 | 0.978 |
| 340 | 0.975 | 0.953 |
| 330 | 0.949 | 0.903 |
| 320 | 0.900 | 0.814 |
| 310 | 0.818 | 0.674 |
| 300 | 0.695 | 0.488 |
| 290 | 0.545 | 0.303 |
| 280 | 0.402 | 0.167 |

| Range of Temperature (℃) | Temperature Coefficients of Refractive Index dn/dt relative ($10^{-6}$/℃) | | | | | | |
|---|---|---|---|---|---|---|---|
| | t | C' | He-Ne | D | e | F' | g |
| -40 ~ -20 | -5.5 | -5.3 | -5.3 | -5.3 | -5.2 | -5.0 | -4.9 |
| -20 ~ 0 | -5.8 | -5.7 | -5.7 | -5.6 | -5.5 | -5.4 | -5.2 |
| 0 ~ 20 | -6.1 | -5.9 | -5.9 | -5.9 | -5.8 | -5.6 | -5.4 |
| 20 ~ 40 | -6.4 | -6.2 | -6.2 | -6.1 | -6.0 | -5.9 | -5.7 |
| 40 ~ 60 | -6.6 | -6.4 | -6.4 | -6.3 | -6.2 | -6.1 | -5.9 |
| 60 ~ 80 | -6.7 | -6.6 | -6.5 | -6.5 | -6.4 | -6.2 | -6.0 |

| Coloration Code | |
|---|---|
| $\lambda_{80}(\lambda_{70})/\lambda_5$ | 325/260 |

| Coloration of Internal Transmittance | |
|---|---|
| $\lambda\tau_{80}/\lambda\tau_5$ | 320/252 |
| | |