

| | | | | |
|---------------|---------------|-----------------|---------------|------------------------------|
| H-PK63 | 603654 | $n_d = 1.60300$ | $v_d = 65.44$ | $n_F - n_C = 0.009214$ |
| | | $n_e = 1.60520$ | $v_e = 65.20$ | $n_{F'} - n_{C'} = 0.009282$ |

| Refractive Indices | | |
|--------------------|----------------|-------------|
| | λ (nm) | n_λ |
| n_{2325} | 2325.42 | 1.57538 |
| n_{1970} | 1970.09 | 1.58054 |
| n_{1530} | 1529.58 | 1.58614 |
| n_{1129} | 1128.64 | 1.59099 |
| n_{1064} | 1064.00 | 1.59183 |
| n_t | 1013.98 | 1.59252 |
| n_s | 852.11 | 1.59517 |
| $n_{A'}$ | 768.19 | 1.59696 |
| n_r | 706.52 | 1.59858 |
| n_C | 656.27 | 1.60019 |
| $n_{C'}$ | 643.85 | 1.60064 |
| n_{He-Ne} | 632.80 | 1.60106 |
| n_D | 589.29 | 1.60292 |
| n_d | 587.56 | 1.60300 |
| n_e | 546.07 | 1.60520 |
| n_F | 486.13 | 1.60940 |
| $n_{F'}$ | 479.99 | 1.60992 |
| n_g | 435.84 | 1.61435 |
| n_h | 404.66 | 1.61845 |
| n_i | 365.01 | 1.62538 |

| Constants of Dispersion Formula | |
|---------------------------------|-----------------|
| A_0 | 2.53403512E+00 |
| A_1 | -1.00840331E-02 |
| A_2 | 1.24087634E-02 |
| A_3 | 4.77201613E-04 |
| A_4 | -4.35207709E-05 |
| A_5 | 2.38050740E-06 |

| Density | | Solarization | |
|-----------------------------|------|---------------------|------|
| ρ (g/cm ³) | 3.64 | $\Delta\lambda$ (%) | -2.6 |

| Relative Partial Dispersion | |
|-----------------------------|--------|
| $P_{d,C}$ | 0.3050 |
| $P_{e,d}$ | 0.2388 |
| $P_{g,F}$ | 0.5372 |
| $P'_{d,c'}$ | 0.2543 |
| $P'_{e,d}$ | 0.2370 |
| $P'_{g,F'}$ | 0.4773 |

| Deviation of Relative Partial Dispersions | |
|---|---------|
| $\Delta P_{F,e}$ | 0.0018 |
| $\Delta P_{g,F}$ | 0.0023 |
| $\Delta P_{C,t}$ | -0.0248 |
| $\Delta P_{C,s}$ | -0.0126 |

| Thermal Properties | |
|--|------|
| T _g (°C) | 604 |
| T _s (°C) | 632 |
| T ₁₀ ^{14.5} (°C) | 561 |
| T ₁₀ ¹³ (°C) | 588 |
| $\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K) | 93 |
| $\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K) | 110 |
| λ (W/(m·K)) | 0.48 |

| Mechanical Properties | |
|---------------------------|-------|
| HK (10 ⁷ Pa) | 361 |
| F _A | 351 |
| E (GPa) | 64.8 |
| G (GPa) | 24.7 |
| μ | 0.309 |
| σ_b (MPa) | 42.3 |
| B (10 ⁻¹² /Pa) | 1.05 |

| Chemical Properties (grade) | |
|-----------------------------|---|
| RC (S) | 1 |
| RA (S) | 1 |
| D _W | 1 |
| D _A | 4 |
| R _{OH} (S) | 2 |
| RP (S) | 2 |

| Expansion Coefficient α (×10 ⁻⁷ /K) | |
|---|----------|
| °C | α |
| -50/-40 | 73 |
| -40/-30 | 76 |
| -30/-20 | 77 |
| -20/-10 | 79 |
| -10/0 | 81 |
| 0/10 | 81 |
| 10/20 | 82 |
| 20/30 | 82 |
| 30/40 | 83 |
| 40/50 | 83 |
| 50/60 | 84 |
| 60/70 | 84 |
| 70/80 | 84 |
| 80/90 | 85 |
| 90/100 | 86 |
| 100/110 | 87 |
| 110/120 | 87 |
| 120/130 | 89 |
| 130/140 | 90 |
| 140/150 | 91 |
| 150/160 | 92 |

| Internal Transmittance | | |
|------------------------|--------------|---------------|
| λ (nm) | τ_{5mm} | τ_{10mm} |
| 2400 | 0.804 | 0.646 |
| 2200 | 0.854 | 0.730 |
| 2000 | 0.931 | 0.867 |
| 1800 | 0.967 | 0.935 |
| 1600 | 0.990 | 0.980 |
| 1400 | 0.995 | 0.990 |
| 1200 | 0.999 | 0.998 |
| 1060 | 0.999 | 0.998 |
| 1000 | 0.999 | 0.998 |
| 950 | 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 | 0.997 | 0.994 |
| 400 | 0.994 | 0.988 |
| 390 | 0.990 | 0.981 |
| 380 | 0.984 | 0.974 |
| 370 | 0.973 | 0.961 |
| 360 | 0.961 | 0.936 |
| 350 | 0.941 | 0.899 |
| 340 | 0.907 | 0.835 |
| 330 | 0.848 | 0.728 |
| 320 | 0.754 | 0.575 |
| 310 | 0.620 | 0.390 |
| 300 | 0.457 | 0.212 |
| 290 | 0.286 | 0.084 |
| 280 | 0.143 | 0.022 |

| Coloration Code | |
|--|---------|
| $\lambda_{80}(\lambda_{70})/\lambda_5$ | 345/275 |
| Coloration of Internal Transmittance | |
| $\lambda\tau_{80}/\lambda\tau_5$ | 333/274 |

| Range of Temperature (°C) | Temperature Coefficients of Refractive Index | | | | | | | | | |
|---------------------------|--|------|------|------|-------|------|------|------|------|------|
| | dn/dt relative (×10 ⁻⁶ / °C) | | | | | | | | | |
| | t | s | C | C' | He-Ne | d | e | F | F' | g |
| -60 ~ -40 | -3.8 | -3.6 | -3.5 | -3.5 | -3.5 | -3.4 | -3.3 | -3.2 | -3.1 | -2.9 |
| -40 ~ -20 | -3.7 | -3.5 | -3.4 | -3.4 | -3.4 | -3.3 | -3.3 | -3.1 | -3.1 | -2.8 |
| -20 ~ 0 | -3.7 | -3.5 | -3.5 | -3.5 | -3.5 | -3.3 | -3.3 | -3.1 | -3.1 | -2.8 |
| 0 ~ 20 | -3.7 | -3.5 | -3.5 | -3.5 | -3.5 | -3.4 | -3.4 | -3.2 | -3.2 | -2.9 |
| 20 ~ 40 | -3.7 | -3.4 | -3.5 | -3.5 | -3.5 | -3.4 | -3.4 | -3.2 | -3.2 | -2.9 |
| 40 ~ 60 | -3.7 | -3.5 | -3.5 | -3.5 | -3.5 | -3.4 | -3.4 | -3.2 | -3.2 | -2.8 |
| 60 ~ 80 | -3.6 | -3.5 | -3.5 | -3.4 | -3.4 | -3.3 | -3.3 | -3.0 | -3.0 | -2.8 |
| 80 ~ 100 | -3.6 | -3.6 | -3.5 | -3.4 | -3.4 | -3.3 | -3.1 | -2.9 | -2.8 | -2.7 |
| 100 ~ 120 | -3.6 | -3.6 | -3.4 | -3.4 | -3.4 | -3.2 | -3.0 | -2.8 | -2.7 | -2.6 |
| 120 ~ 140 | -3.7 | -3.5 | -3.4 | -3.4 | -3.4 | -3.2 | -3.1 | -2.8 | -2.7 | -2.6 |
| 140 ~ 160 | -3.6 | -3.6 | -3.4 | -3.4 | -3.4 | -3.3 | -3.1 | -2.8 | -2.7 | -2.6 |

| Constants of dn/dt | | |
|--------------------|----------------|----------------|
| D ₀ | D ₁ | D ₂ |
| -1.10E-05 | 1.08E-08 | -2.38E-11 |
| E ₀ | E ₁ | λ_{TK} |
| 2.86E-07 | 3.72E-10 | 2.46E-01 |