

| | | | | | | |
|-------------------|----|---------|---------|------|---------|---------|
| 569713 K-GFK70 | nd | 1.56907 | νd | 71.3 | nF-nC | 0.00798 |
| | ne | 1.57098 | νe | 70.9 | nF'-nC' | 0.00805 |

| 屈折率 Refractive Indices | | |
|---------------------------|--------|---------|
| n1548 | 1548.1 | 1.55577 |
| n1309 | 1308.5 | 1.55766 |
| nt | 1014.0 | 1.56038 |
| nA' | 768.2 | 1.56395 |
| nr | 706.5 | 1.56530 |
| nC | 656.3 | 1.56666 |
| nC' | 643.8 | 1.56705 |
| nD | 589.3 | 1.56900 |
| nd | 587.6 | 1.56907 |
| ne | 546.1 | 1.57098 |
| nF | 486.1 | 1.57464 |
| nF' | 480.0 | 1.57510 |
| ng | 435.8 | 1.57899 |
| nh | 404.7 | 1.58258 |
| ni | 365.0 | 1.58864 |

| 分散式の常数 Constants of Dispersion Formula | |
|---|-----------------------------|
| A0 | 2.4293935 |
| A1 | $-5.7591097 \times 10^{-3}$ |
| A2 | 1.1512013×10^{-2} |
| A3 | 1.3249240×10^{-4} |
| A4 | 7.3250033×10^{-6} |
| A5 | $-5.7195445 \times 10^{-7}$ |

| dn/dTの分散常数 Constants of Dispersion dn/dT abs. | |
|--|-------------------------|
| D0 | -2.47×10^{-5} |
| D1 | -1.68×10^{-9} |
| D2 | -2.49×10^{-11} |
| E0 | 3.77×10^{-7} |
| E1 | 3.45×10^{-10} |
| $\lambda_{TK} (\mu m)$ | 0.178 |

| 部分分散および部分分散比 Partial Dispersions and Relative Partial Dispersions | | | |
|--|------------------------|------------------|------------------|
| nC-nt | nC-nA' | nd-nC | ne-nC |
| 0.00628 | 0.00271 | 0.00241 | 0.00432 |
| $\theta_{C,t}$ | $\theta_{C,A'}$ | $\theta_{d,C}$ | $\theta_{e,C}$ |
| 0.787 | 0.340 | 0.302 | 0.541 |
| ng-nd | ng-nF | nh-ng | ni-ng |
| 0.00992 | 0.00435 | 0.00359 | 0.00965 |
| $\theta_{g,d}$ | $\theta_{g,F(\Delta)}$ | $\theta_{h,g}$ | $\theta_{i,g}$ |
| 1.243 | 0.545 (0.0207) | 0.450 | 1.209 |
| nC'-nt | ne-nC' | nF'-ne | ni-nF' |
| 0.00667 | 0.00393 | 0.00412 | 0.01354 |
| $\theta'_{C',t}$ | $\theta'_{e,C'}$ | $\theta'_{F',e}$ | $\theta'_{i,F'}$ |
| 0.829 | 0.488 | 0.512 | 1.682 |

| 機械的性質 Mechanical Properties | | 熱的性質 Thermal Properties | |
|---|---------|---|-------|
| ヌープ硬さ Hk Knoop Hardness | 332 (3) | 転移点 Tg (°C) Transformation Point | 485 |
| ビッカース硬さ Hv Vickers Hardness | 352 | 屈伏点 At (°C) Yielding Point | 509 |
| 摩耗度 Ha Abrasion | 620 | 線膨張係数 $\alpha (\times 10^{-7} \text{°C}^{-1})$ Thermal Expansion | |
| ヤング率 E ($\times 10^8 \text{N}\cdot\text{m}^{-2}$) Young's Modulus | 663 | (-30~+70°C) 132 (+100~+300°C) 156 | |
| 剛性率 G ($\times 10^8 \text{N}\cdot\text{m}^{-2}$) Modulus of Rigidity | 256 | 熱伝導率 $\lambda (\text{W}\cdot\text{m}^{-1}\cdot\text{K}^{-1})$ Thermal Conductivity | 0.553 |
| ポアソン比 σ Poisson Ratio | 0.295 | 比熱 Cp ($\text{J}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}$) Specific Heat | 498 |
| 化学的性質 Chemical Properties | | その他 Other Properties | |
| 耐水性(粉末法) RW Water Resistance | 1 | 泡 B Bubbles | B |
| 耐酸性(粉末法) RA Acid Resistance | 1 | 着色度 C Coloration | 34/28 |
| 耐久性(表面法) DW Chemical Durability | 1 | 比重 S.g Specific Gravity | 4.48 |
| 備考 Remarks | | 生産頻度 PF Production frequency | A |

| 内部透過率 τ Internal Transmittance | | |
|--|-------|-------|
| $\lambda(\text{nm})$ | 3mm | 10mm |
| 270 | 0.799 | 0.474 |
| 280 | 0.848 | 0.578 |
| 290 | 0.912 | 0.737 |
| 300 | 0.931 | 0.790 |
| 310 | 0.902 | 0.709 |
| 320 | 0.977 | 0.926 |
| 330 | 0.987 | 0.958 |
| 340 | 0.993 | 0.977 |
| 350 | 0.996 | 0.987 |
| 360 | 0.997 | 0.992 |
| 370 | 0.998 | 0.994 |
| 380 | 0.998 | 0.995 |
| 390 | 0.998 | 0.995 |
| 400 | 0.998 | 0.995 |
| 420 | 0.999 | 0.997 |
| 440 | 0.999 | 0.997 |
| 460 | 0.999 | 0.998 |
| 480 | 0.999 | 0.999 |
| 500 | 0.999 | 0.999 |
| 550 | 0.999 | 0.999 |
| 600 | 0.999 | 0.999 |
| 650 | 0.999 | 0.999 |
| 700 | 0.999 | 0.999 |
| 800 | 0.999 | 0.998 |
| 1060 | 0.999 | 0.999 |
| 1500 | 0.999 | 0.999 |
| 2000 | 0.999 | 0.999 |

| 屈折率の温度係数 Temperature Coefficients of Refractive Index | | | | | | |
|--|---|------|------|---|-------|-------|
| (°C) | (dn/dT)rel. ($\times 10^{-6} \text{°C}^{-1}$) | | | (dn/dT)abs. ($\times 10^{-6} \text{°C}^{-1}$) | | |
| | 1548.1 | d | g | 1548.1 | d | g |
| -40/-20 | -9.1 | -8.9 | -8.5 | -11.2 | -11.0 | -10.7 |
| 0/+20 | -9.7 | -9.4 | -9.0 | -11.2 | -10.9 | -10.6 |
| +40/+60 | -10.1 | -9.8 | -9.3 | -11.3 | -11.0 | -10.6 |