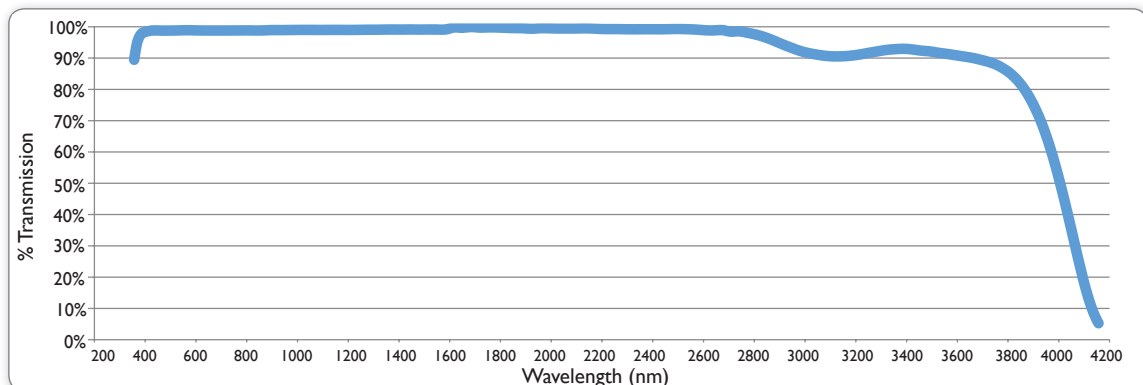


**H-FK6I**

Internal Transmission  
Curve\*\*  
(5mm thickness)



\*\*Assuming no reflection losses

**Optical Properties**

| Refractive Indices |                |        |
|--------------------|----------------|--------|
| Index              | $\lambda$ (nm) | Value  |
| $n_{3770}$         | 3770           | 1.461* |
| $n_{3500}$         | 3500           | 1.465* |
| $n_{3000}$         | 3000           | 1.472* |
| $n_{2500}$         | 2500           | 1.478* |
| $n_{2000}$         | 2000           | 1.482* |
| $n_{1500}$         | 1500           | 1.486* |
| $n_t$              | 1014.0         | 1.488  |
| $n_s$              | 852.1          | 1.490  |
| $n_r$              | 706.5          | 1.492  |
| $n_c$              | 656.3          | 1.494  |
| $n_{c'}$           | 643.8          | 1.494  |
| $n_{He-Ne}$        | 632.8          | 1.494  |
| $n_D$              | 589.3          | 1.495  |
| $n_d$              | 587.6          | 1.495  |
| $n_e$              | 546.1          | 1.497  |
| $n_F$              | 486.1          | 1.500  |
| $n_{F'}$           | 480.0          | 1.500  |
| $n_g$              | 435.8          | 1.503  |
| $n_h$              | 404.7          | 1.506  |
| $n_i$              | 365.0          | 1.510  |

| Dispersion  |       |
|-------------|-------|
| Abbe Number | Value |
| $v_d$       | 81.20 |
| $v_e$       | 81.44 |

| Coloring                   |       |
|----------------------------|-------|
| $\lambda_{80} / \lambda_5$ | 35/31 |

**Other Properties**

| RoHS Compliance                         |        |
|-----------------------------------------|--------|
| Lead (Pb)                               | < 2ppm |
| Mercury (Hg)                            | < 2ppm |
| Cadmium (Cd)                            | < 2ppm |
| Hexavalent Chromium (Cr <sup>6+</sup> ) | < 2ppm |
| PBB                                     | < 2ppm |
| PBDE                                    | < 2ppm |

| Mechanical Properties |                        |
|-----------------------|------------------------|
| Density               | 3.70 g/cm <sup>3</sup> |
| Hardness              | 372 knoop              |
| Young's Modulus       | 70.07 GPa              |

| Thermal Properties |                                        |
|--------------------|----------------------------------------|
| $T_g$              | 450 °C                                 |
| CTE* (25-100 °C)   | $12.8 \times 10^{-6}/^{\circ}\text{C}$ |
| dn/dT              | $-6.6 \times 10^{-6}/^{\circ}\text{C}$ |

| Equivalent Glasses |         |
|--------------------|---------|
| Manufacturer       | Glass   |
| Hoya               | FCD1    |
| Ohara              | S-FPL51 |
| Schott             | N-PK52A |

LightPath lenses that have a 353xxx prefix use the H-FK6I glass.



All values represent glass characteristics after molding

\*Testing administered by LightPath Technologies