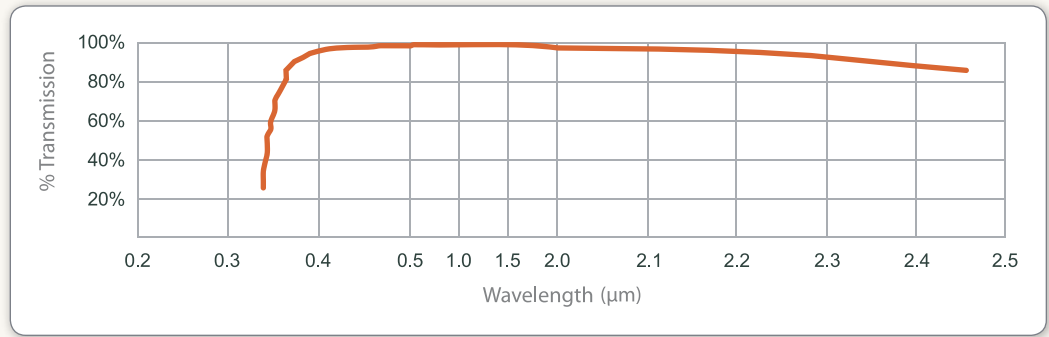


D-ZLaF52LA Uncoated Transmission Curve (5mm thickness)



Chemical Properties

| Refractive Indices | | |
|--------------------|----------------|-------|
| Index | λ (nm) | Value |
| $n_{2352.4}$ | 2352.4 | 1.767 |
| $n_{1970.1}$ | 1970.1 | 1.771 |
| $n_{1529.6}$ | 1529.6 | 1.777 |
| $n_{1060.0}$ | 1060.0 | 1.784 |
| n_t | 1014.0 | 1.785 |
| n_s | 852.1 | 1.790 |
| n_r | 706.5 | 1.797 |
| n_c | 656.3 | 1.800 |
| $n_{c'}$ | 643.8 | 1.801 |
| n_{He-Ne} | 632.8 | 1.802 |
| n_D | 589.3 | 1.806 |
| n_d | 587.6 | 1.806 |
| n_e | 546.1 | 1.811 |
| n_F | 486.1 | 1.820 |
| $n_{F'}$ | 480.0 | 1.821 |
| n_g | 435.8 | 1.831 |
| n_h | 404.7 | 1.841 |
| n_i | 365.0 | 1.858 |

| Dispersion | |
|-------------|-------|
| Abbe Number | Value |
| v_d | 40.78 |
| v_e | 40.55 |

| Coloring | |
|----------------------------|-------|
| λ_{80} / λ_5 | Value |
| | 40/34 |

| Available Coatings | | |
|--------------------|----------------------|-----------|
| Coating | λ Range (µm) | R_{MAX} |
| MLBB-A | 400 - 600 | < 1.0% |
| MLBB-B | 600 - 1050 | < 1.0% |
| MLBB-C | 1050 - 1600 | < 1.0% |
| MLBB-D | 1300 - 1700 | < 0.25% |

Other Properties

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

| Mechanical Properties | |
|-----------------------|------------------------|
| Density | 4.56 g/cm ³ |
| Hardness | 662 knoop |
| Young's Modulus | 11,506 GPa |

| Thermal Properties | |
|--------------------|---------------------------------------|
| T_g | 546 °C |
| CTE | $6.9 \times 10^{-6} / ^\circ\text{C}$ |
| dn/dT | $6.5 \times 10^{-6} / ^\circ\text{C}$ |

| Equivalent Glasses | |
|--------------------|-----------|
| Manufacturer | Glass |
| Hoya | M-NBFD130 |
| Ohara | L-LAH53 |

LightPath[®] lenses that have a 355xxx prefix use the D-ZLaF52LA glass.

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