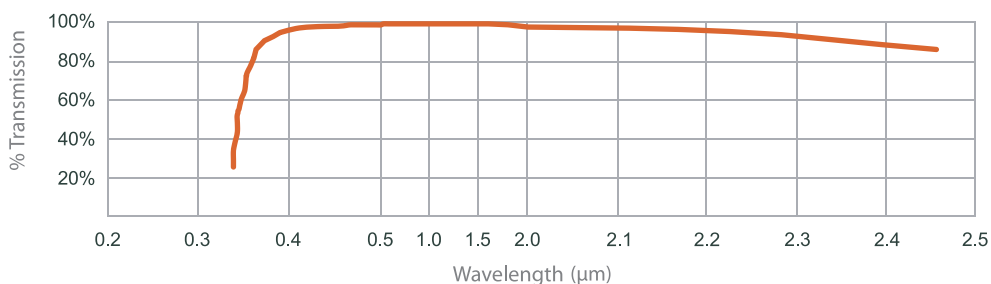


D-ZLaF52LA

Internal Transmission Curve
(5mm thickness)

**Optical 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	40.79
v_e	40.55

Coloring	
λ_{80} / λ_5	40/34

Standard Coatings		
Coating	λ Range (μm)	R_{MAX}
MLBB-A	350 - 700	< 1.0%
MLBB-B	600 - 1050	< 1.0%
MLBB-C	1050 - 1600	< 1.0%
MLBB-Q	1300 - 1700	< 0.25%
MLBB-M	700 - 900	< 2.0%

All values represent glass characteristics after molding

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
Sumita	K-VC89

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



Revised: 5/13