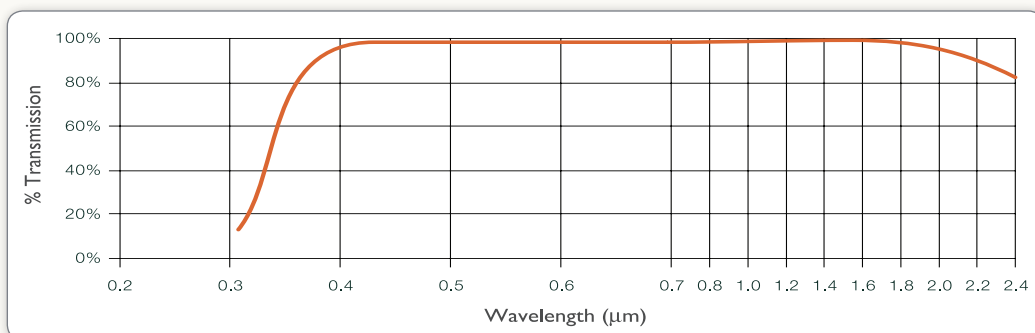


D-ZK3

Internal Transmission Curve
(5mm thickness)



Optical Properties

Refractive Indices		
Index	λ (nm)	Value
$n_{2352.4}$	2352.4	1.555
$n_{1970.1}$	1970.1	1.561
$n_{1529.6}$	1529.6	1.568
$n_{1128.6}$	1128.6	1.573
n_t	1014.0	1.575
n_s	852.1	1.578
n_r	706.5	1.582
n_c	656.3	1.583
$n_{c'}$	643.8	1.584
n_{He-Ne}	632.8	1.584
n_D	589.3	1.586
n_d	587.6	1.586
n_e	546.1	1.589
n_F	486.1	1.593
$n_{F'}$	480.0	1.594
n_g	435.8	1.598
n_h	404.7	1.602
n_i	365.0	1.610

Dispersion	
Abbe Number	Value
v_d	60.71
v_e	60.62

Coloring	
λ_{80} / λ_5	Value
	35/30

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%

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	2.83 g/cm ³
Hardness	628 knoop
Young's Modulus	9767 GPa

Thermal Properties	
T_g	511 °C
CTE	$7.6 \times 10^{-6} / ^\circ\text{C}$
dn/dT	$3.2 \times 10^{-6} / ^\circ\text{C}$

Equivalent Glasses	
Manufacturer	Glass
Hoya	M-BACD5N
Ohara	L-BAL35

LightPath[®] lenses that have a 354xxx prefix use the D-ZK3 glass.

LightPath[®]
TECHNOLOGIES

All values represent glass characteristics after molding

Revised: 5/13