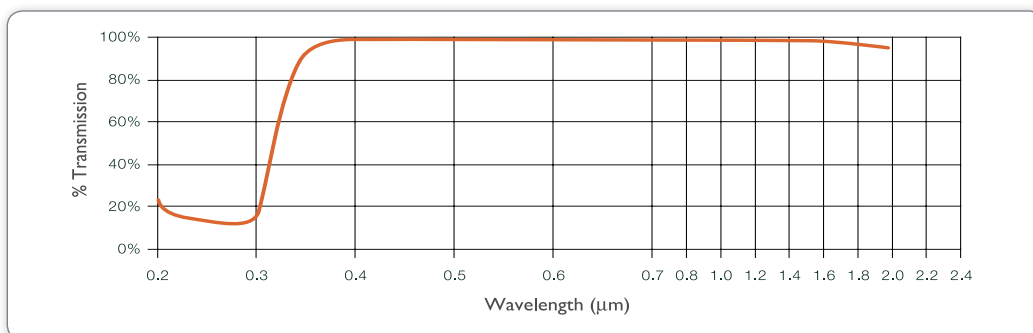


ECO-550 Uncoated Transmission Curve (5mm thickness)



Optical Properties

Refractive Indices		
Index	λ (μm)	Value
$n_{1970.0}$	1.970	1.578
$n_{1530.0}$	1.530	1.579
$n_{1129.0}$	1.129	1.588
$n_{1060.0}$	1.060	1.589
n_t	1.014	1.590
n_s	0.852	1.593
$n_{A'}$	0.768	1.595
n_r	0.707	1.597
n_c	0.656	1.599
$n_{c'}$	0.644	1.600
n_{He-Ne}	0.633	1.600
n_D	0.589	1.603
n_d	0.588	1.603
n_e	0.546	1.606
n_F	0.486	1.611
$n_{F'}$	0.480	1.612
n_g	0.436	1.618
n_h	0.405	1.624
n_i	0.365	1.633

Dispersion		
Abbe Number		Value
V_d		50.02
V_e		50.46

Coloring		
λ_{80} / λ_s		Value
		35/31

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-M	700 - 900	< 2.0%

Other Properties

RoHS Compliance	
Lead (Pb)	< 50 ppm
Mercury (Hg)	< 1000 ppm
Cadmium (Cd)	< 100 ppm
Hexavalent Chromium (Cr ⁶⁺)	< 1000 ppm
PBB	< 1000 ppm
PBDE	< 1000 ppm

Mechanical Properties	
Density	3.31 g/cm ³
Hardness	254 knoop
Young's Modulus	55.1 GPa

Thermal Properties	
T_g	371 °C
CTE	$11.1 \times 10^{-6} / ^\circ C$
dn/dT	$-1.3 \times 10^{-6} / ^\circ C$

LightPath[®] lenses that have a 352xxx prefix use the ECO-550 glass.

