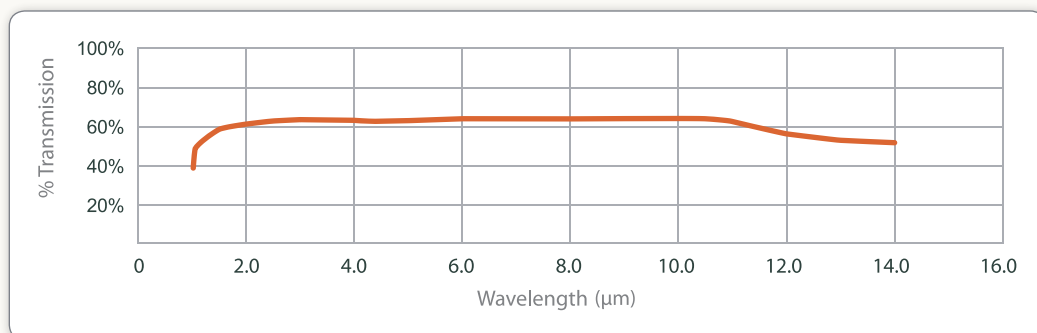


# BD-2 Glass Datasheet

## BD-2 Uncoated Transmission Curve (5mm thickness)



## Optical Properties

Refractive Indices and Absorption Coefficient		
$\lambda$ ( $\mu\text{m}$ )	Index	Absorption ( $\text{cm}^{-1}$ )
3	2.6266	0.01
4	2.6210	0.01
5	2.6173	0.01
6	2.6142	0.01
7	2.6117	0.01
8	2.6088	0.01
9	2.6055	0.01
10	2.6023	0.01
11	2.5983	0.03
12	2.5942	0.13
13	2.5892	0.20
14	2.5843	0.20

Available Coatings		
Coating	$\lambda$ Range ( $\mu\text{m}$ )	$R_{\text{AVG}}$
IR-1	8 - 12	< 1.0% per side
IR-3	3 - 5	< 1.0% per side
IR-4	1.8 - 3	< 1.0% per side

## Other Properties

Composition	
Component	Percentage
Germanium (Ge)	28%
Antimony (Sb)	12%
Selenium (Se)	60%

Mechanical Properties	
Density	4.67 g/cm <sup>3</sup>
Hardness	150 knoop
Young's Modulus	22.1 GPa

Thermal Properties	
T <sub>g</sub>	278 °C
CTE	14 x 10 <sup>-6</sup> / °C
dn/dT	91 x 10 <sup>-6</sup> / °C

Equivalent Glasses	
Manufacturer	Glass
Amorphous Materials	AMTIR-3
Schott/Vitron	IG5

LightPath<sup>®</sup> lenses that have a 390xxx prefix use the BD-2 glass.

LightPath<sup>®</sup>  
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