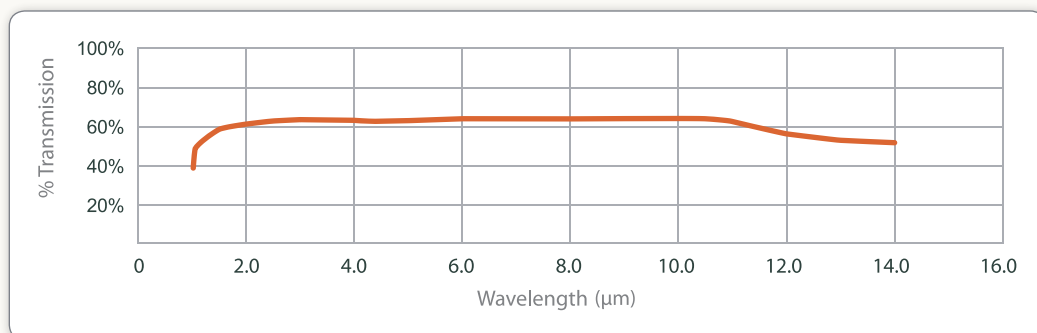


BD-2 Glass Datasheet

BD-2 Uncoated Transmission Curve (5mm thickness)



Optical Properties

Other Properties

Refractive Indices and Absorption Coefficient		
λ (μm)	Index	Absorption (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

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

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

Thermal Properties	
T _g	278 °C
CTE	14 × 10 ⁻⁶ / °C
dn/dT	91 × 10 ⁻⁶ / °C

Available Coatings		
Coating	λ Range (μm)	R _{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

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

LightPath[®] lenses that have a 390xxx prefix use the BD-2 glass.

LightPath[®]
TECHNOLOGIES

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www.phototechnica.co.jp
フォトテクニカ株式会社

〒336-0017 埼玉県さいたま市南区南浦和 1-2-17
TEL: 048-871-0067 FAX: 048-871-0068
e-mail: voc@phototechnica.co.jp

All values represent glass characteristics after molding

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