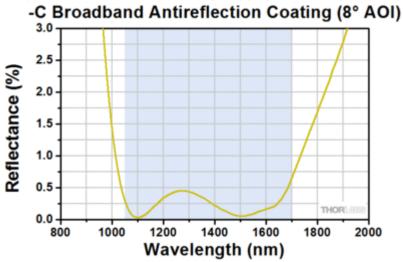
Vacuum optics

Windows

 Typ: Broadband precision wedged window (https://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=8430&pn=WW11050-C)



Ordering No.: WW11050-C
Wavelength: 1050 - 1700 nm
Wedge Angle: 30 +/- 10 arcim

 Subsrtate: N-BK7 (Datasheet: https://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=6973&tabname=N-BK7)

• Diameter: Ø1" 25.4 mm +0.0/-0.2mm

Thickness 5.0 mm +/- 0.1mm
Clear Aperture: >= Ø22.86 mm

• Surface Flatness: $\leq \lambda/20$ Over Central Ø10 mm; $\leq \lambda/10$ Over Entire Clear Aperture

• Surface Quality: 20-10 Scratch-Dig

• Reflectance Over AR Coating Range: R_avg < 0.5% @ 0° AOI

Wavelength [nm]	Reflectance [%]
1580	0,13389
1570	0,12753
1560	0,10307
1550	0,08615
1540	0,07766
1530	0,07079
1520	0,05383
1510	0,06028
1500	0,05612

Auto Cad (2D):

ww11050-c-autocadpdf.pdf

• Temperature:

- Question: What is the maximum (continuous) temperature which the AR coatings are able to withstand? What is the maximum temperature gradient that can be applied (continuously) between the two faces of the 1/2" 3mm BK7 and fused silica windows?
- Response from Jeremy at Thorlabs: The maximum temperature will be around 200°C or so. We do not spec a maximum temperature gradient since it can depend on the thermal boundary conditions and geometrical boundary conditions of the window. However, I would recommend UVFS over N-BK7 because of its much lower coefficient of thermal coefficient.

Vacuum isolator

• Test report scan copy for vacuum compatible isolators: test_report_scan_copy_for_vacuum_compatible_isolators.pdf

https://iqwiki.iqo.uni-hannover.de/ - IQwiki

Permanent link:

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Last update: 2017/05/09 13:35

