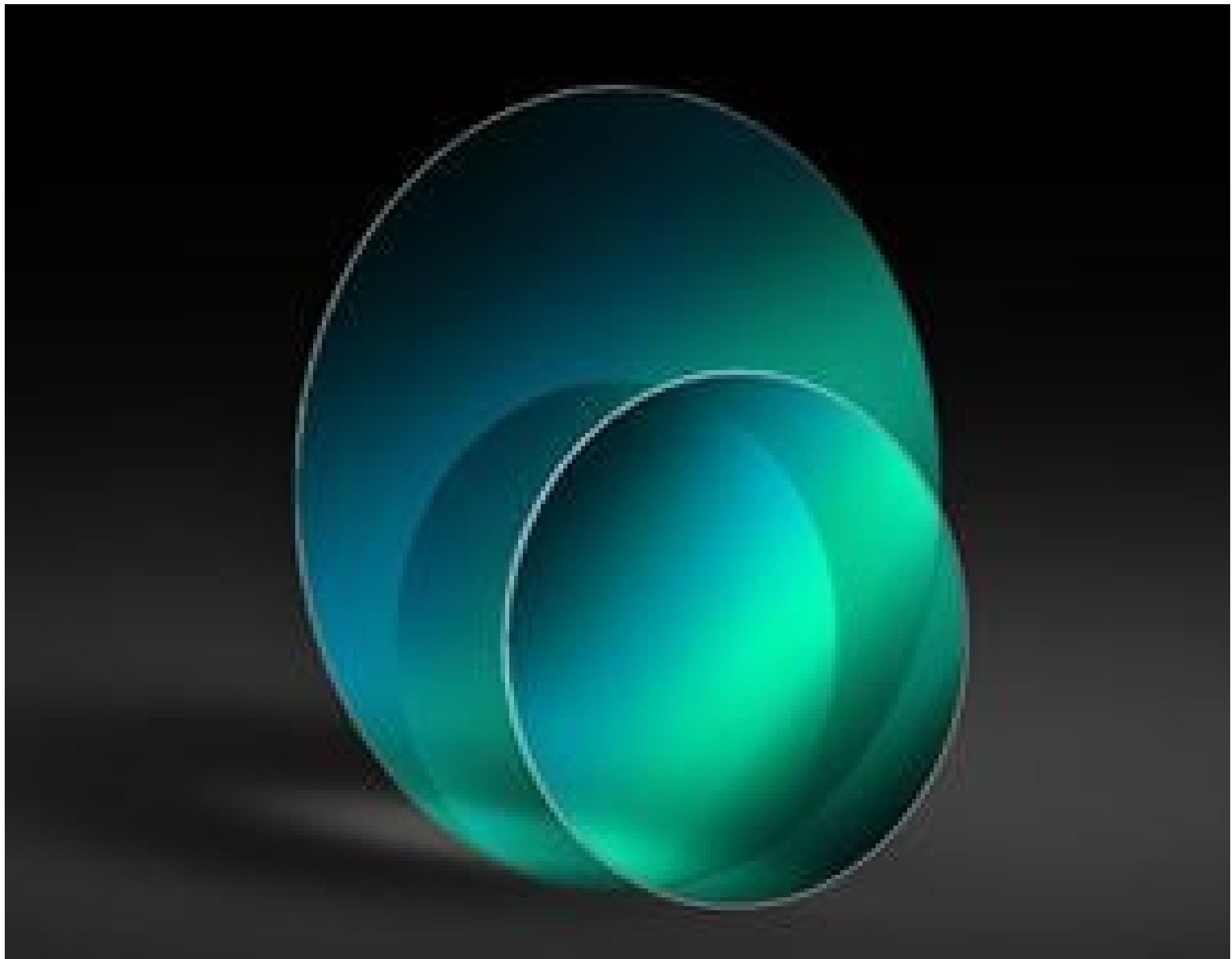


TECHSPEC® 30mm Diameter Uncoated, Ultra-Thin N-BK7 WindowSee More by [SCHOTT Optical Components](#)

Ultra-Thin N-BK7 Windows

Stock #**66-189** **20+** In Stock[-](#) [1](#) [+](#) **A\$246^{.40}****ADD TO CART**

Volume Pricing	
Qty 1-5	A\$246.40 each
Qty 6-25	A\$196.80 each
Qty 26-49	A\$184.00 each
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Product Downloads

SPECIFICATIONS**General**

Type:

Protective Window

Physical & Mechanical Properties

Protective as needed	Bevel:
27.00	Clear Aperture CA (mm):
30.00 +0.00/-0.10	Diameter (mm):
0.20 ±0.025	Thickness (mm):
Fine Ground	Edges:
610.00	Knoop Hardness (kg/mm²):
<30	Parallelism (arcsec):
0.21	Poisson's Ratio:
82	Young's Modulus (GPa):

Optical Properties

64.17	Abbe Number (v_d):
Uncoated	Coating:
1.516	Index of Refraction (n_d):
N-BK7	Substrate:
40-20	Surface Quality:
λ/2	Transmitted Wavefront, P-V:
350 - 2200	Wavelength Range (nm):

Material Properties

7.1 (-30 to +70°C) 8.3 (+20 to +300°C)	Coefficient of Thermal Expansion CTE (10⁻⁶/°C):
2.51	Density (g/cm³):

Regulatory Compliance

Compliant	RoHS 2015:
Compliant	Reach 219:
View	Certificate of Conformance:

PRODUCT DETAILS

- Ultra-Thin 0.20mm Thickness
- Precision N-BK7 Substrate
- Extremely Lightweight

TECHSPEC® Ultra-Thin N-BK7 Windows are our thinnest windows available and are at least 1/10 the thickness of our traditional N-BK7 windows. Their extremely thin designs make them ideal for both weight and size-sensitive applications. Additionally, their high tolerance design yields minimal beam distortion and scatter. TECHSPEC® Ultra-Thin N-BK7 Windows are available uncoated or with a MgF₂ anti-reflection coating. For custom sizes or coating options, please contact our [Sales Department](#).

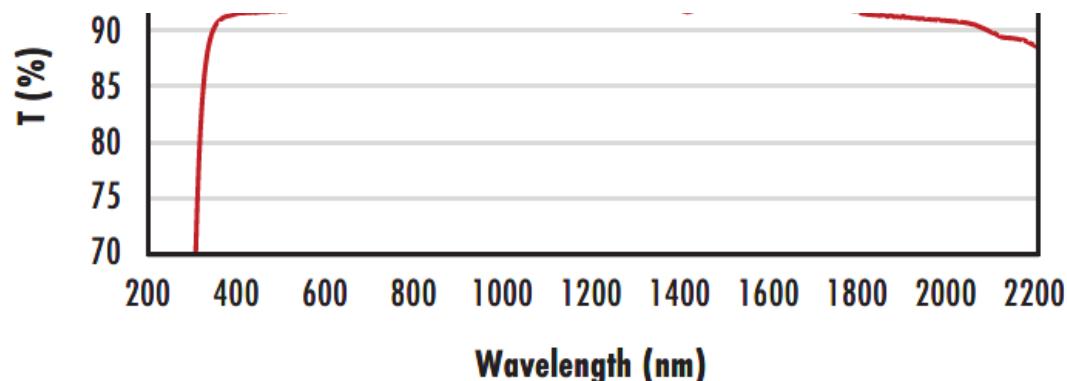
Note: The Ultra-Thin N-BK7 Windows are very fragile. Handle these windows with care.

TECHNICAL INFORMATION

N-BK7

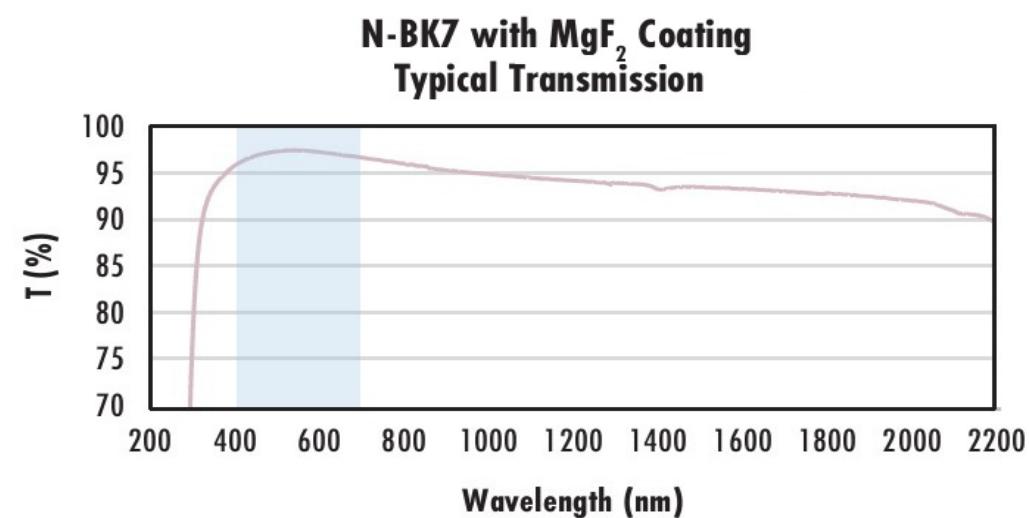
Uncoated N-BK7 Typical Transmission





Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV- NIR spectra.

[Click Here to Download Data](#)



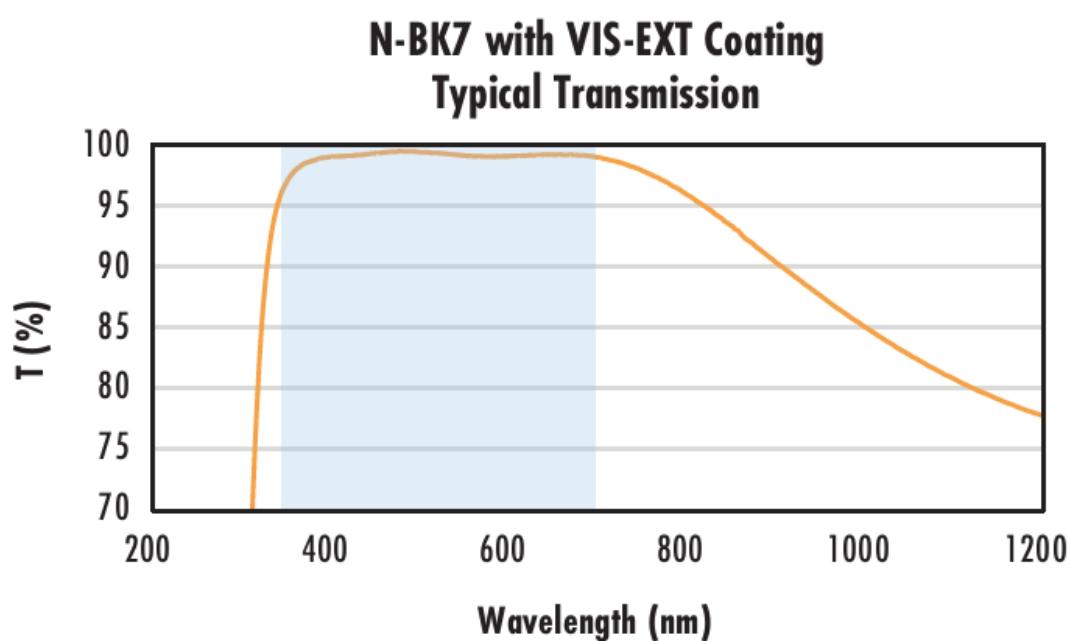
Typical transmission of a 3mm thick N-BK7 window with MgF_2 (400-700nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{\text{avg}} \leq 1.75\% \text{ @ 400 - 700nm (N-BK7)}$$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)



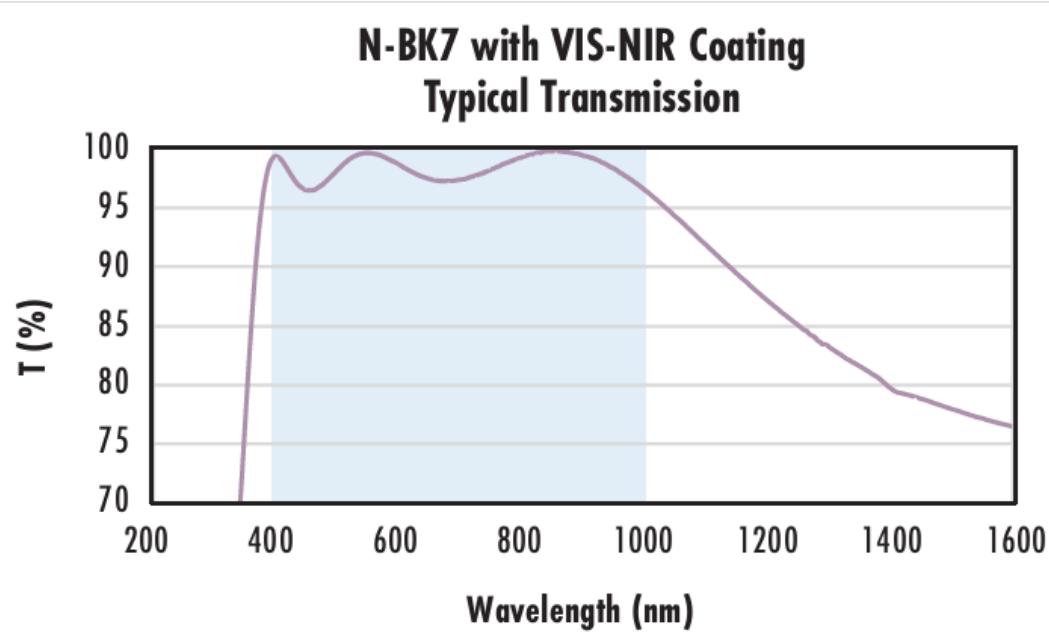
Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{\text{avg}} \leq 0.5\% \text{ @ 350 - 700nm}$$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)



Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

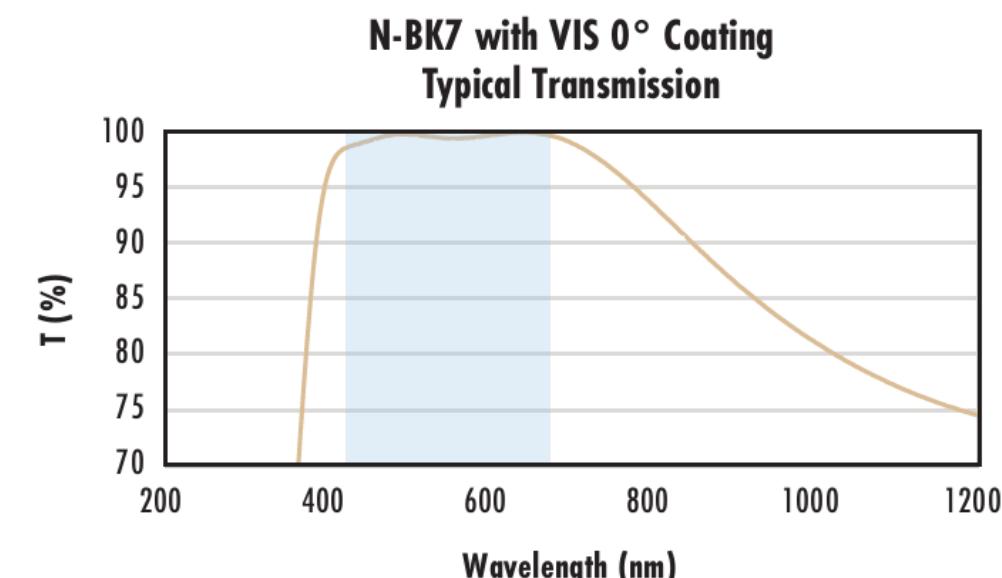
$$R_{\text{abs}} \leq 0.25\% \text{ @ 880nm}$$

$$R_{\text{avg}} \leq 1.25\% \text{ @ 400 - 870nm}$$

$$R_{\text{avg}} \leq 1.25\% \text{ @ 890 - 1000nm}$$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)



Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

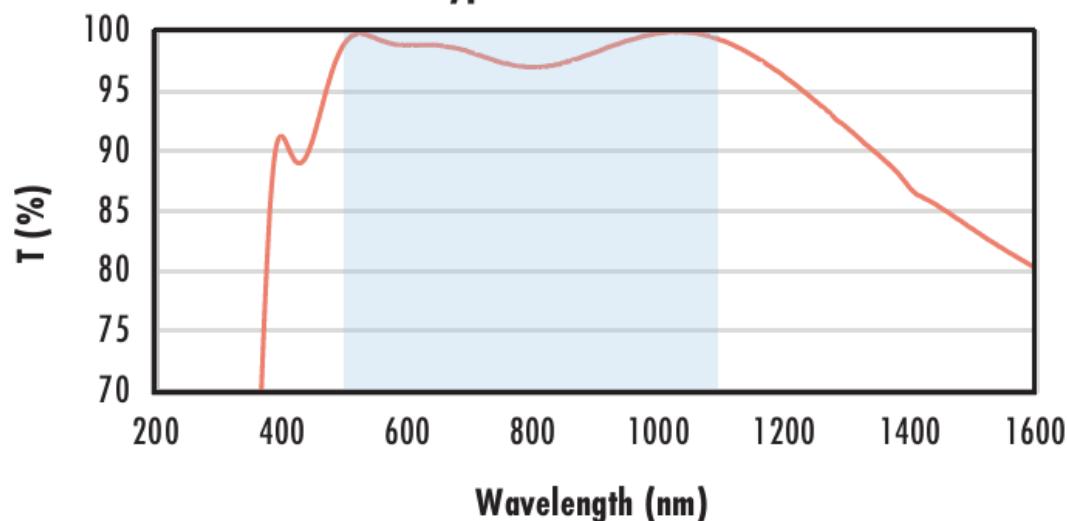
$$R_{\text{avg}} \leq 0.4\% \text{ @ 425 - 675nm}$$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

IN-IR YAG BAR COATING

Typical Transmission



Typical transmission of a 3mm thick N-BK7 window with YAG-BAR (500-1100nm) coating at 0° AOI.

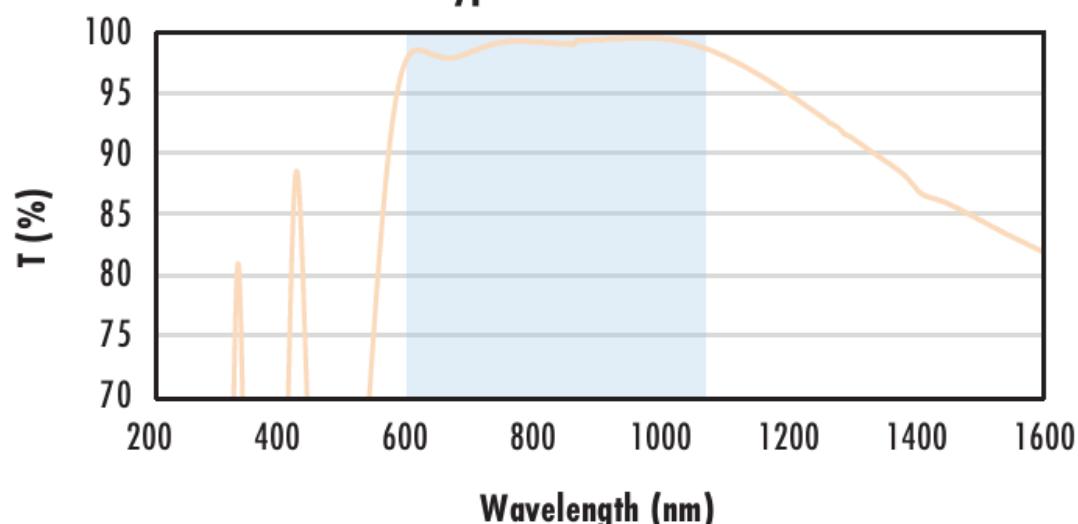
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{abs} \leq 0.25\% @ 532nm$
 $R_{abs} \leq 0.25\% @ 1064nm$
 $R_{avg} \leq 1.0\% @ 500 - 1100nm$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

N-BK7 with NIR I Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.

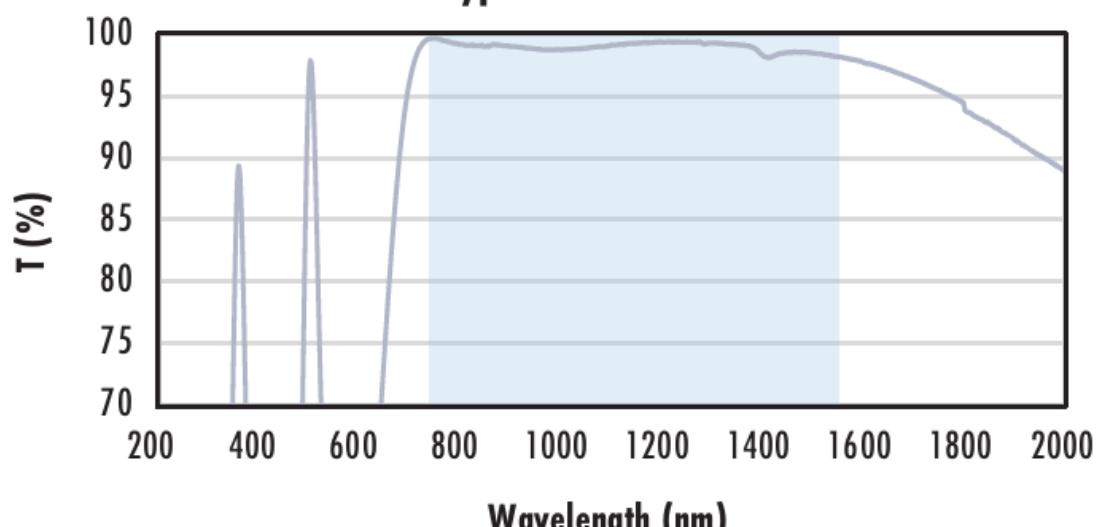
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} \leq 0.5\% @ 600 - 1050nm$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

N-BK7 with NIR II Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 window with NIR II (750 - 1550nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{abs} \leq 1.5\% @ 750 - 800nm$
 $R_{abs} \leq 1.0\% @ 800 - 1550nm$
 $R_{avg} \leq 0.7\% @ 750 - 1550nm$

Data outside this range is not guaranteed and is for reference only.

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CUSTOM

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

COMPATIBLE MOUNTS