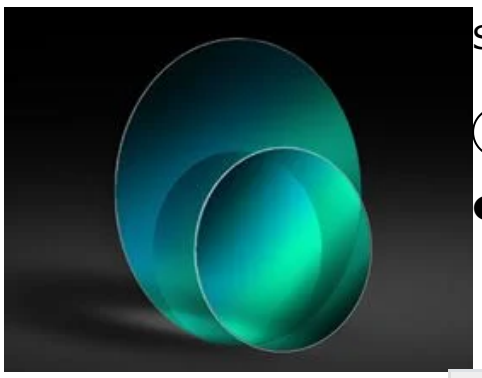
TECHSPEC® 20mm Diameter Uncoated, Ultra-Thin N-BK7 Window

See More by SCHOTT Optical Components



Ultra-Thin N-BK7 Windows

Stock #66-187 20+ In Stock

- 1 +

MRP ₹10,796

Price inclusive of all taxes

ADD TO CART

Volume Pricing	
Qty 1-5	₹10,796 each
Qty 6-25	₹8,626 each
Qty 26-49	₹8,071 each
Need More?	Request Quote

Product Downloads

STEP:step | PDF Drawing:pdf

IGES:igs | eDrawing:eprt

EO Spec Sheet | Download All

General

Type:	Protective Window	**Type of Window:**	Glass

Physical & Mechanical Properties

Clear Aperture CA (mm):	18.00	**Diameter (mm):**	20.00 +0.00/-0.10
Thickness (mm):	0.20 ±0.025	**Bevel:**	Protective as needed
Edges:	Fine Ground	**Parallelism (arcsec):**	<30
Poisson's Ratio:	0.21	**Young's Modulus (GPa):**	82
Knoop Hardness (kg/mm^2):	610.00		

Optical Properties

Coating:	Uncoated	**Substrate:** ⓘ	N-BK7
Index of Refraction (n_d):	1.516	**Surface Quality:**	20-10
Transmitted Wavefront, P-V:	λ/2	**Abbe Number (v_d):**	64.17
Wavelength Range (nm):	350 - 2200		

Material Properties

Density (g/cm^3):	2.51	**Coefficient of Thermal**	7.1 (-30 to +70°C)

Expansion CTE (10^{-6}/°C):	8.3 (+20 to +300°C)

Regulatory Compliance

RoHS 2015:	**Compliant**	**Reach 219:**	**Compliant**
Certificate of Conformance:	**View**		
Country of Origin:	Singapore	**Imported By:**	Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91-80-6845 0000

Need different specs or modifications?

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.**

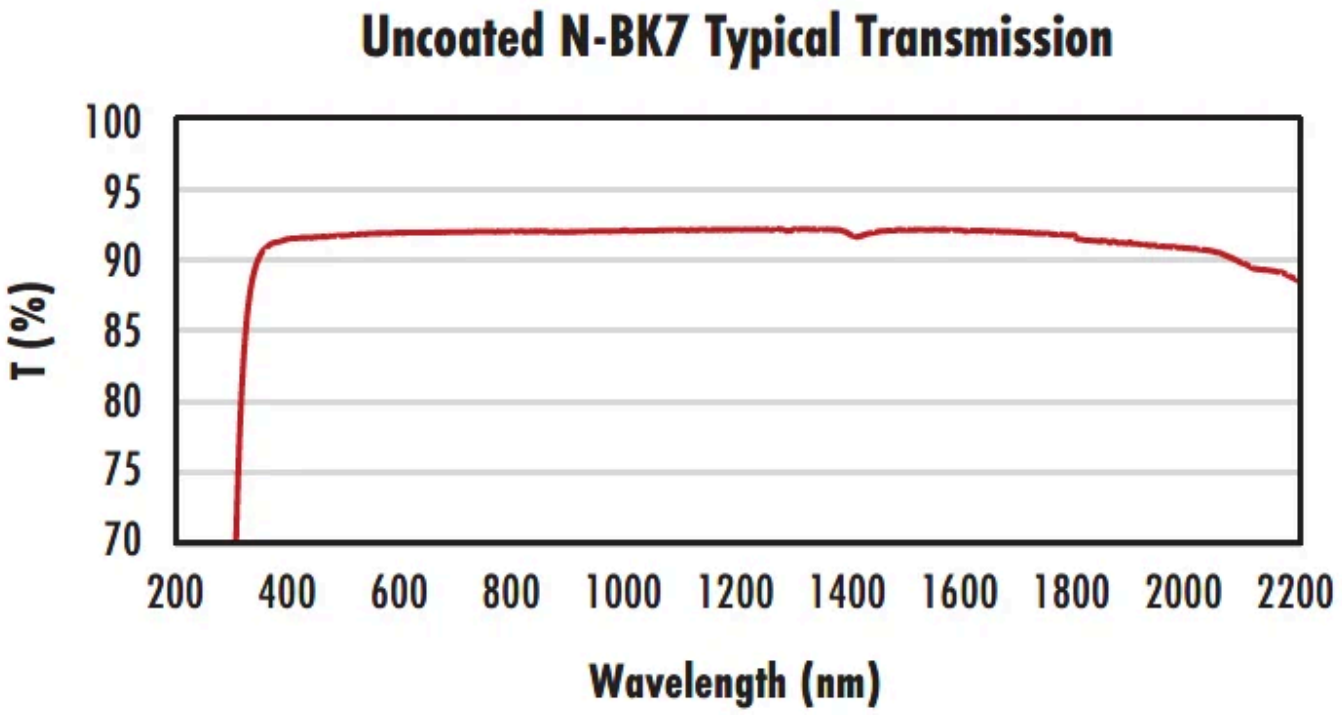
Product Details

- 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**.

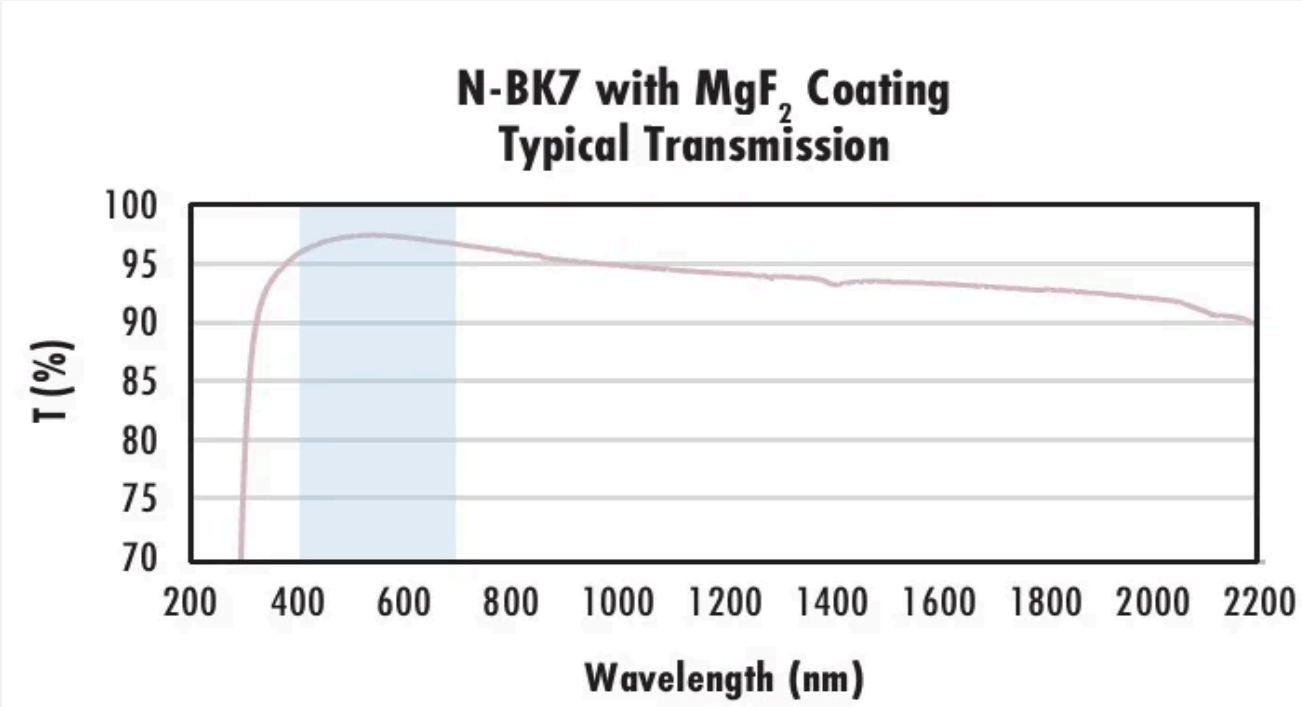
Note: The Ultra-Thin N-BK7 Windows are very fragile. Handle these windows with care.

Technical Information



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

Click Here to Download Data



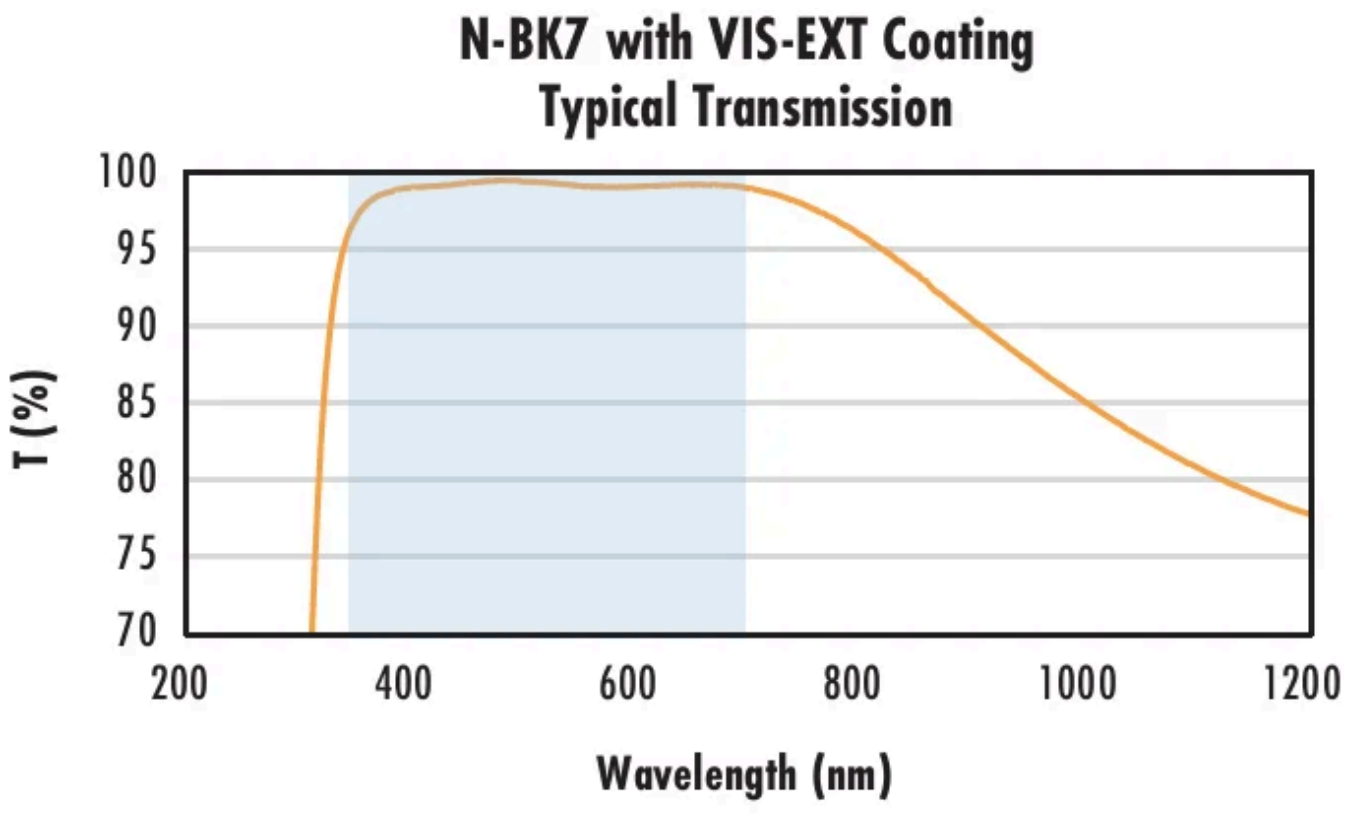
Typical transmission of a 3mm thick N-BK7 window w MgF2 (400-700nm) coating at 0° AOI.

The blue shaded region indicates the coating desig wavelengh range, with the following specification:

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

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

Click Here to Download Data



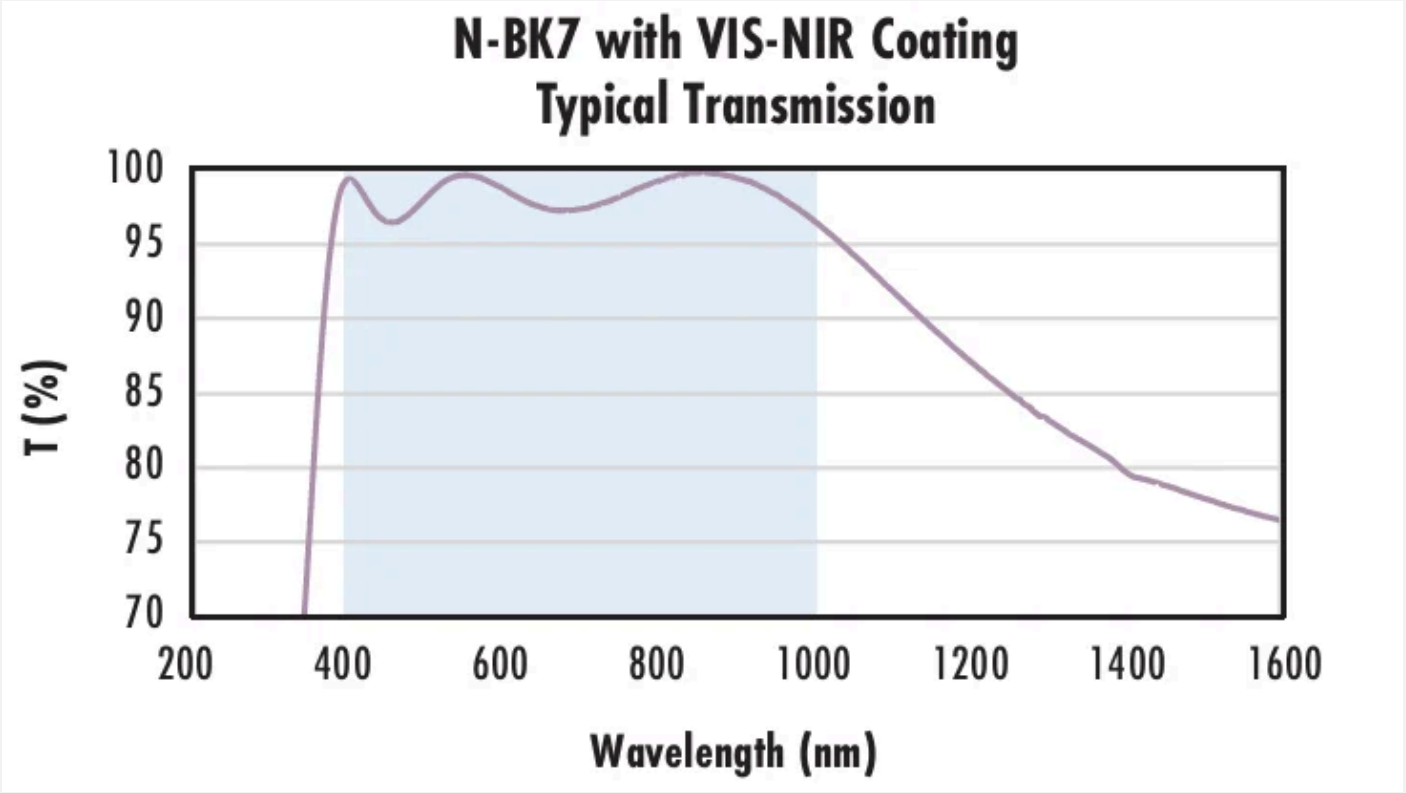
Typical transmission of a 3mm thick N-BK7 window w VIS-EXT (350-700nm) coating at 0° AOI.

The blue shaded region indicates the coating desig wavelengh range, with the following specification:

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

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

Click Here to Download Data



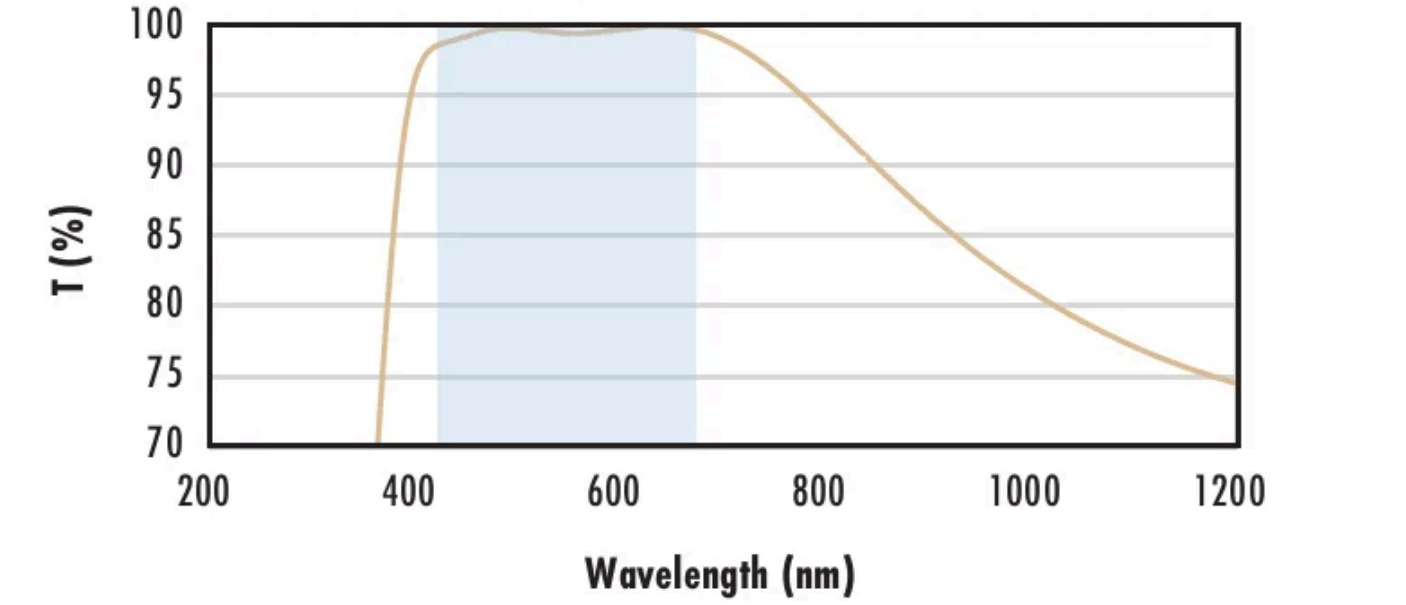
Typical transmission of a 3mm thick N-BK7 window w
VIS-NIR (400-1000nm) coating at 0° AOI.

The blue shaded region indicates the coating desig
wavelengh range, with the following specification:

$R_{abs} \leq 0.25\%$ @ 880nm
$R_{avg} \leq 1.25\%$ @ 400 - 870nm
$R_{avg} \leq 1.25\%$ @ 890 - 1000nm

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

Click Here to Download Data



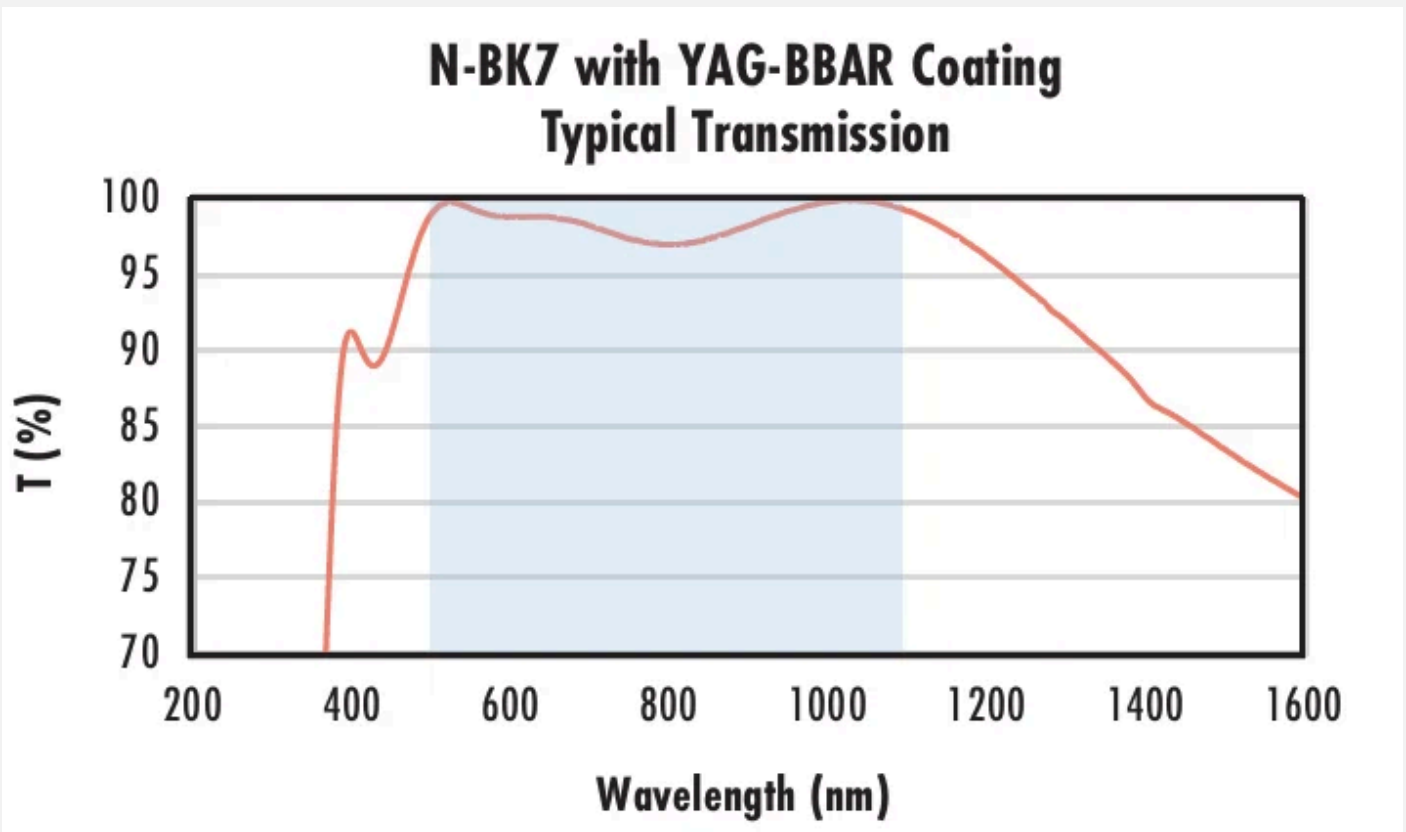
Typical transmission of a 3mm thick N-BK7 window wit
0° (425-675nm) coating at 0° AOI.

The blue shaded region indicates the coating desig
wavelengh range, with the following specification:

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

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

Click Here to Download Data



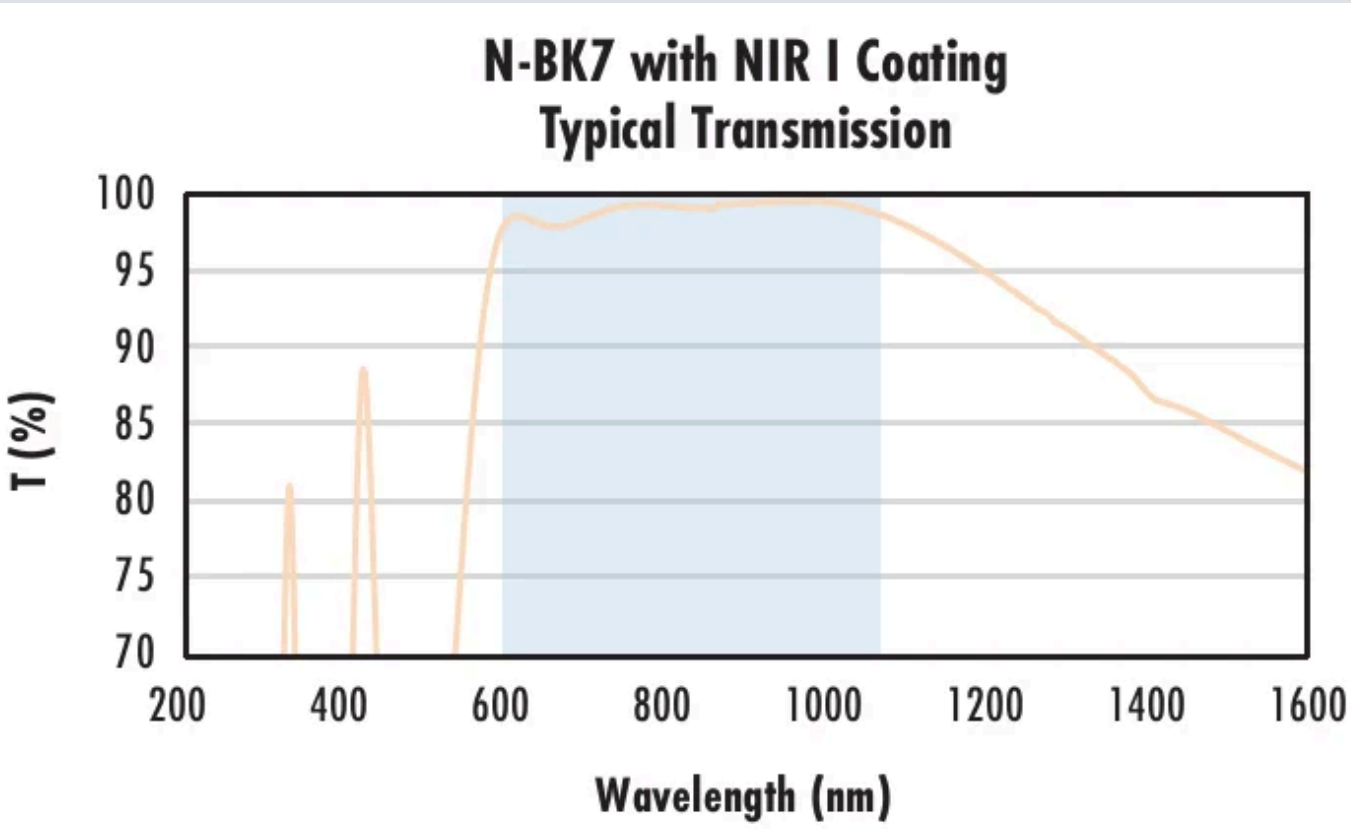
Typical transmission of a 3mm thick N-BK7 window w
YAG-BBAR (500-1100nm) coating at 0° AOI.

The blue shaded region indicates the coating desig
wavelengh 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 fo
reference only.

Click Here to Download Data



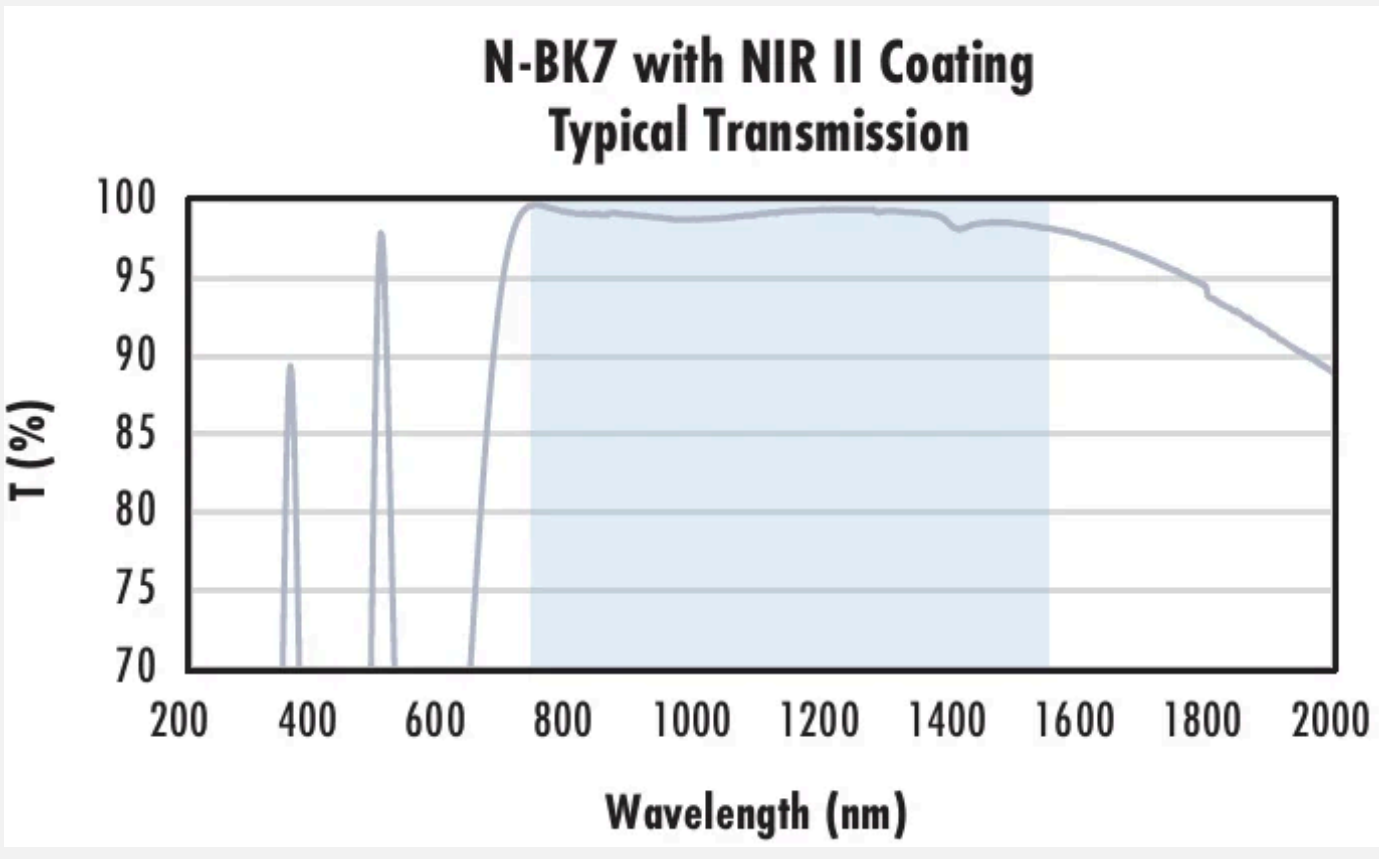
Typical transmission of a 3mm thick N-BK7 window witl I (600 - 1050nm) coating at 0° AOI.

The blue shaded region indicates the coating desig wavelengh range, with the following specification:

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

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

Click Here to Download Data



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

The blue shaded region indicates the coating desig wavelengh 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 fo reference only.

Click Here to Download Data

Frequently Purchased Together

#32-000 - 18.0mm Dia. x 36.0mm FL Uncoated, Plano-Convex Lens
₹3,254
Qty

#32-527 - 30mm, Uncoated, N-BK7 Right Angle Prism
₹10,896
Qty

#32-760 - SCHOTT RG-1000, 25.4mm Dia., 3mm Thick, Colored Glass Longpass Filter
₹4,641
Qty

#33-361 - 25.0mm Dia. x 200.0mm FL, VIS-NIR Coated, Plano-Convex Lens
₹5,448
Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price ☐	Buy
MORE+ 	20.0mm Optic Dia., Optic Mount	Fixed		#64-559	₹3,305 Request Quote	14 In Stock 1

	Title	Type	Compare	Stock Number	Price ☐	Buy
MORE+ 	5.0 - 25.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-529	₹10,291 Request Quote	20+ In Stock 1
MORE+ 	7.0 - 40.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-676	₹10,694 Request Quote	2 In Stock 1
MORE+ 	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	₹10,896 Request Quote	CONTACT US 1
MORE+ 	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	₹11,703 Request Quote	6 In Stock 1
MORE+ 	8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	₹12,107 Request Quote	10 In Stock 1
MORE+ 	4.0 - 36.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-077	₹15,840 Request Quote	6 In Stock 1
MORE+ 	5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	₹41,365 Request Quote	CONTACT US 1

Check out our full selection of mounts **here**.

Resources

Media Type

- Application Note
- Technical Tool
- Video
- Glossary
- FAQ

APPLICATION NOTE
Anti-Reflection (AR) Coatings

APPLICATION NOTE
An Introduction to Optical Coatings

TECHNICAL TOOL
Beam Displacement Calculator

APPLICATION NOTE
Understanding Optical Windows

VIDEO
Optical Windows Review

APPLICATION NOTE
Optical Glass

View More

;