TECHSPEC®

2.0mm Dia. x 3.0mm FL, VIS-EXT Coated Plano-Convex Lens

Stock #35-703 20+ In Stock

Other Coating Options

- 1 +

C$124.60

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Volume Pricing	
Qty 1-9	C$124.60 each
Qty 10-24	C$112.00 each
Qty 25-49	C$100.10 each
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Product Downloads

- STEP:step
- Curve:pdf
- PDF Drawing:pdf
- ISO 10110 Drawing
- IGES:igs
- Curve (xslx):xlsx
- Zemax:zar
- Zemax:zmx
- eDrawing:eprt
- Code V:seq
- EO Spec Sheet
- Download All

General

Type:	Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm):	2.00 +0.0/-0.025	**Centering (arcmin):**	30-45, typical
Center Thickness CT (mm):	0.80 ±0.05	**Edge Thickness ET (mm):**	0.60
Clear Aperture CA (mm):	1.5	**Bevel:**	Protective as needed

Optical Properties

Effective Focal Length EFL (mm):	3.00 @ 587.6nm	**Back Focal Length BFL (mm):**	2.57
Coating:	VIS-EXT (350-700nm)	**Coating Specification:**	R_{avg} <0.5% @ 350 - 700nm
Substrate: ⓘ	N-LASF9	**Surface Quality:**	20-10
Power (P-V) @ 632.8nm:	1.5λ	**Irregularity (P-V) @ 632.8nm:**	λ/4
Focal Length Tolerance (%):	±1	**Radius R_1 (mm):**	2.55
f/#:	1.5	**Numerical Aperture NA:**	0.33
Wavelength Range (nm):	350 - 700	**Damage Threshold, By Design:** ⓘ	5 J/cm^2 @ 532nm, 10ns

Regulatory Compliance

RoHS 2015:	**Compliant**	**Certificate of Conformance:**	**View**
Reach 235:	**Compliant**		

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

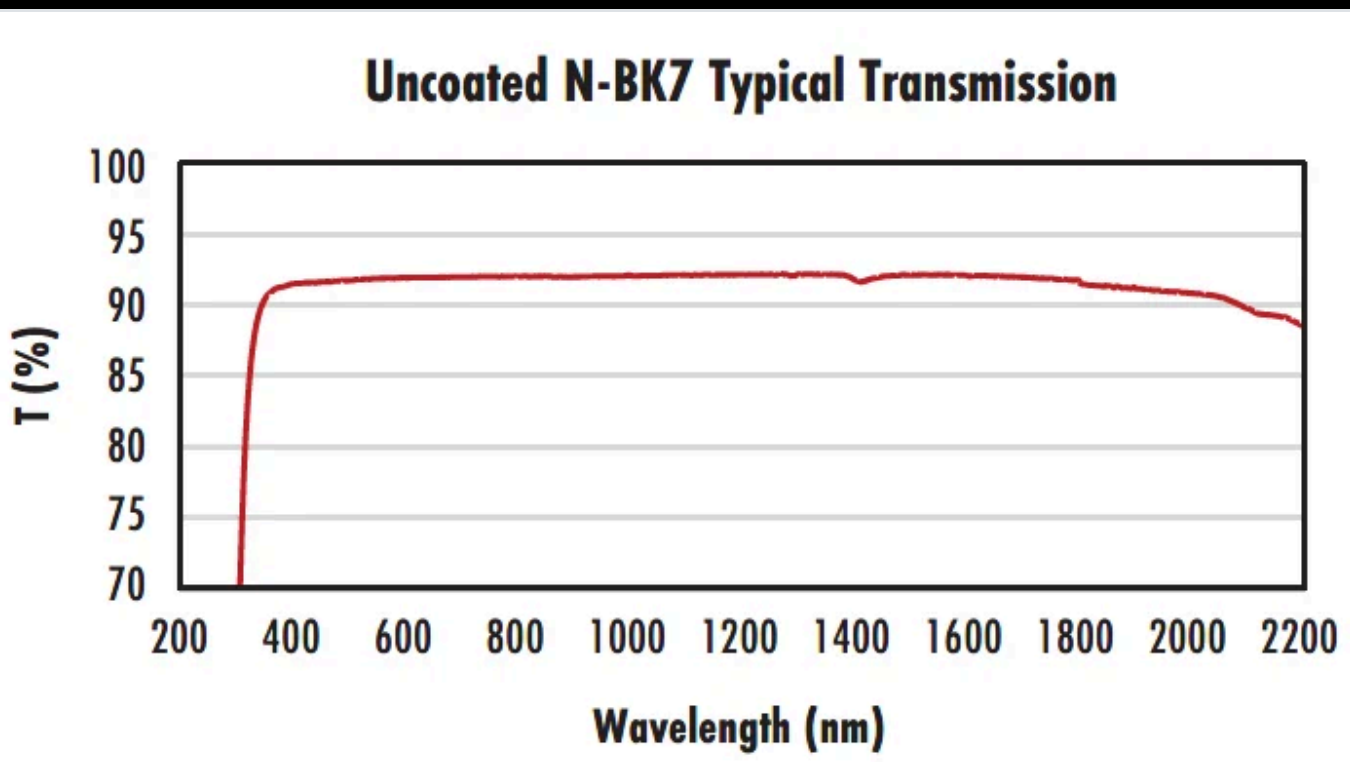
Learn more about our **custom manufacturing capabilities** or submit an inquiry **here.**

Product Details

- Visible Broadband Anti-Reflection Coating with Extended UV Performance
- AR Coated to Provide <0.5% Reflectance per Surface for 350 - 700nm
- Designed for 0° Angle of Incidence
- Various PCX Coating Options: **Uncoated**, **MgF_2**, **VIS 0°**, **VIS-NIR**, **NIR I**, **NIR II**, and **YAG-BBAR**

TECHSPEC® VIS-EXT Coated Plano-Convex (PCX) Lenses have a positive focal length, making them ideal for collecting and focusing light in imaging applications. They are also useful in a variety of applications involving emitters, detectors, lasers, and fiber optics. TECHSPEC® VIS-EXT Coated Plano-Convex (PCX) Lenses are available in a wide variety of diameters and focal lengths. Identical designs of these PCX lenses are also offered **uncoated** or with broadband anti-reflective (BBAR) coatings, which include **MgF2**, **VIS 0°**, **VIS-NIR**, **NIR I**, **NIR II**, and **YAG-BBAR.**

Technical Information



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

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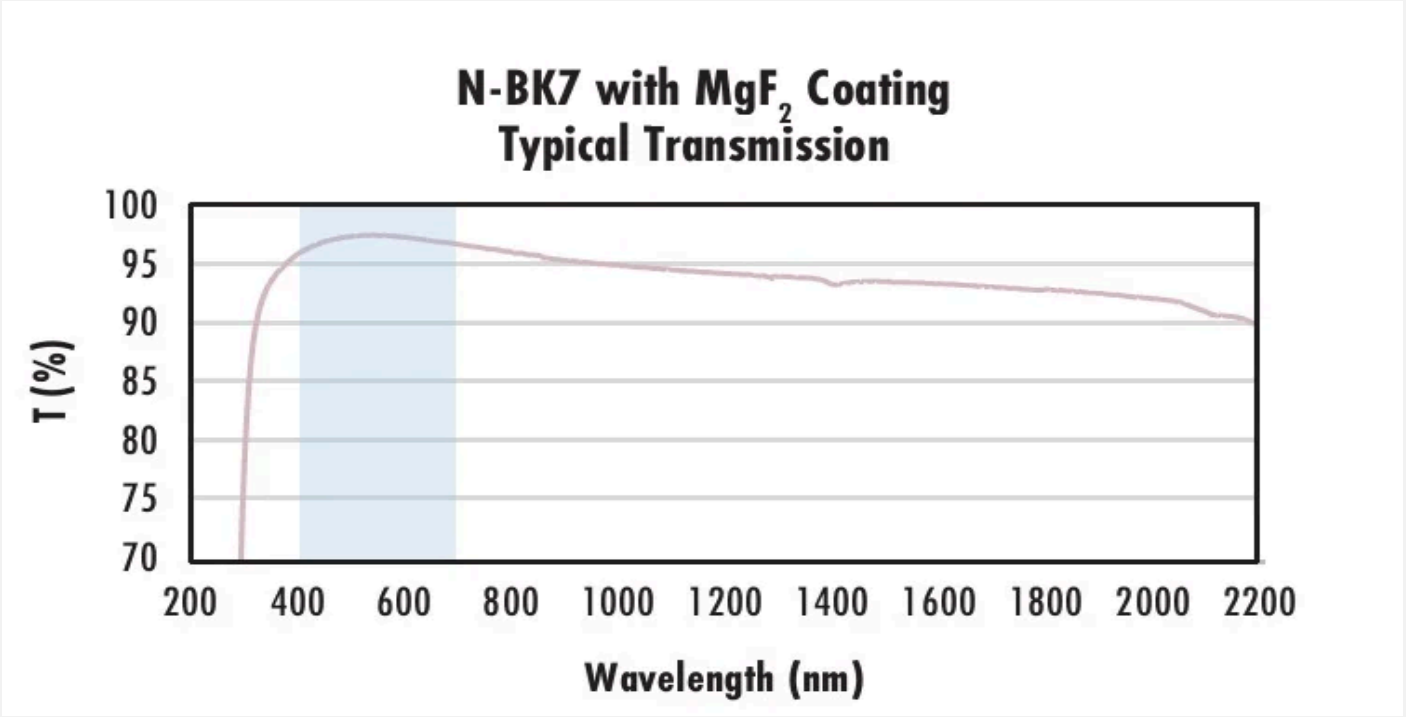

Typical transmission of a 3mm thick N-BK7 window w MgF2 (400-700nm) coating at 0° AOI.

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.

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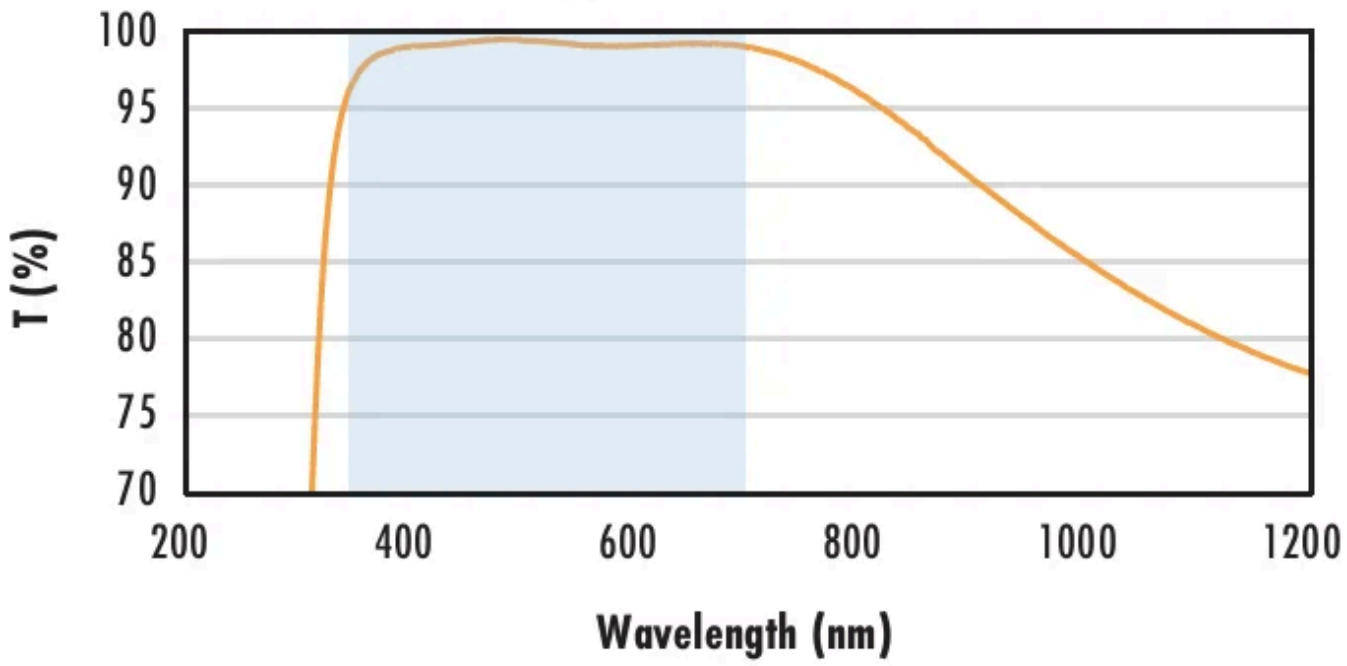

Typical transmission of a 3mm thick N-BK7 window w VIS-EXT (350-700nm) coating at 0° AOI.

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.

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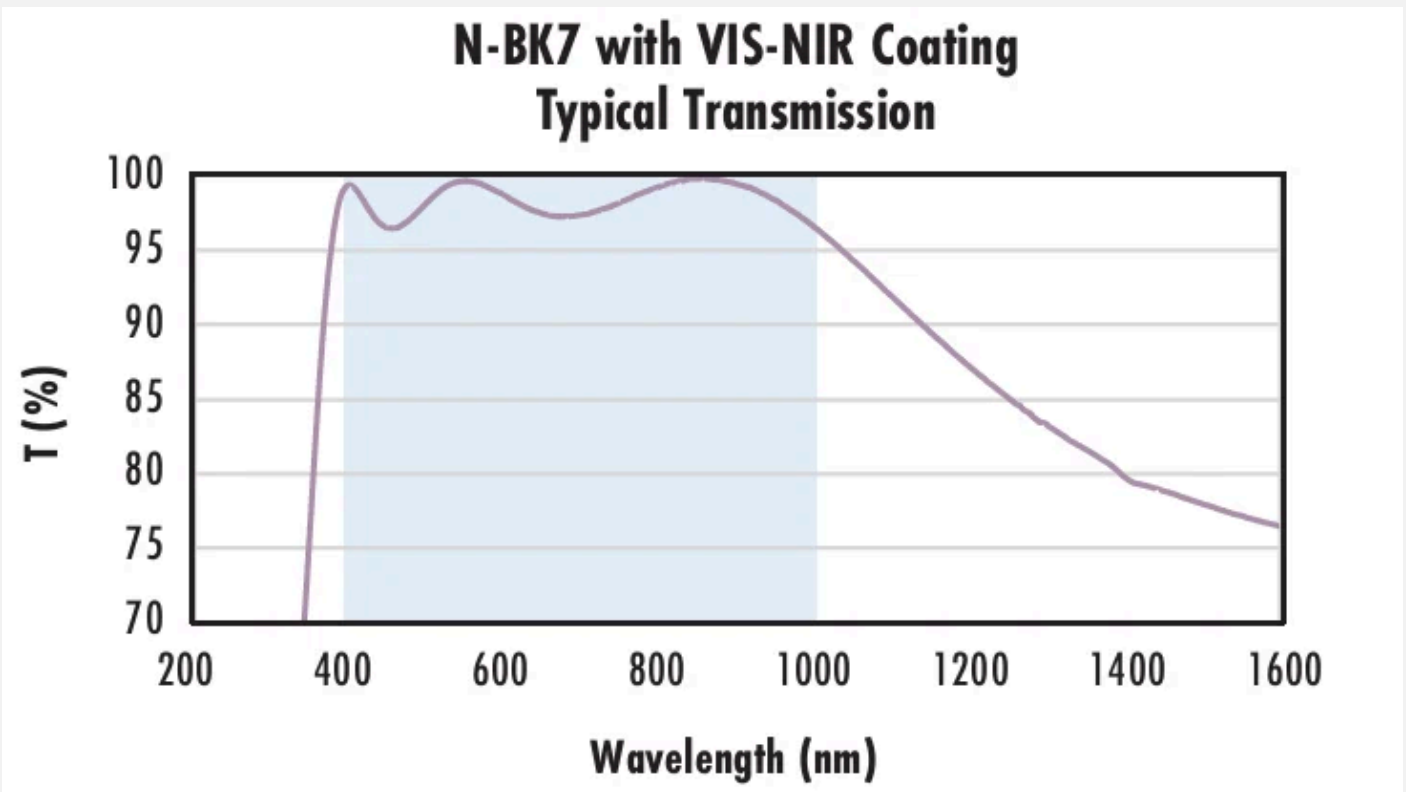

Typical transmission of a 3mm thick N-BK7 window w VIS-NIR (400-1000nm) coating at 0° AOI.

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.

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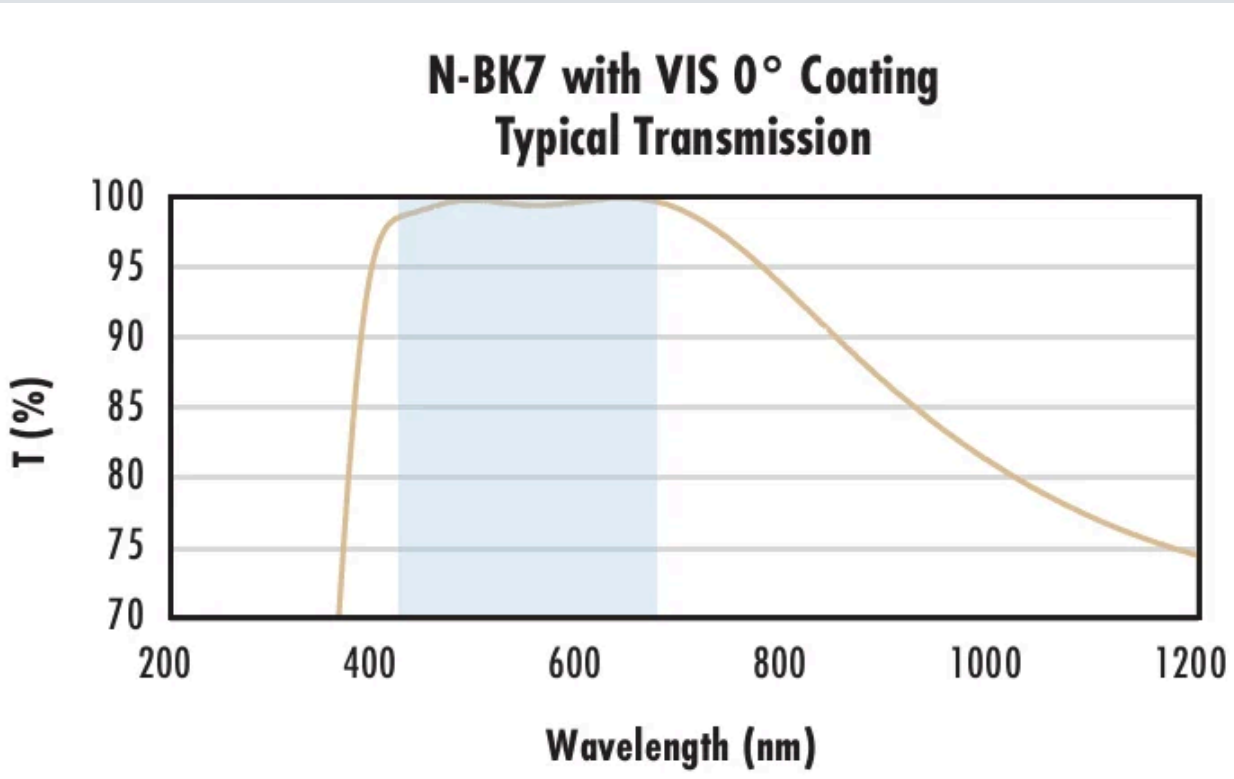

Typical transmission of a 3mm thick N-BK7 window wit 0° (425-675nm) coating at 0° AOI.

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.

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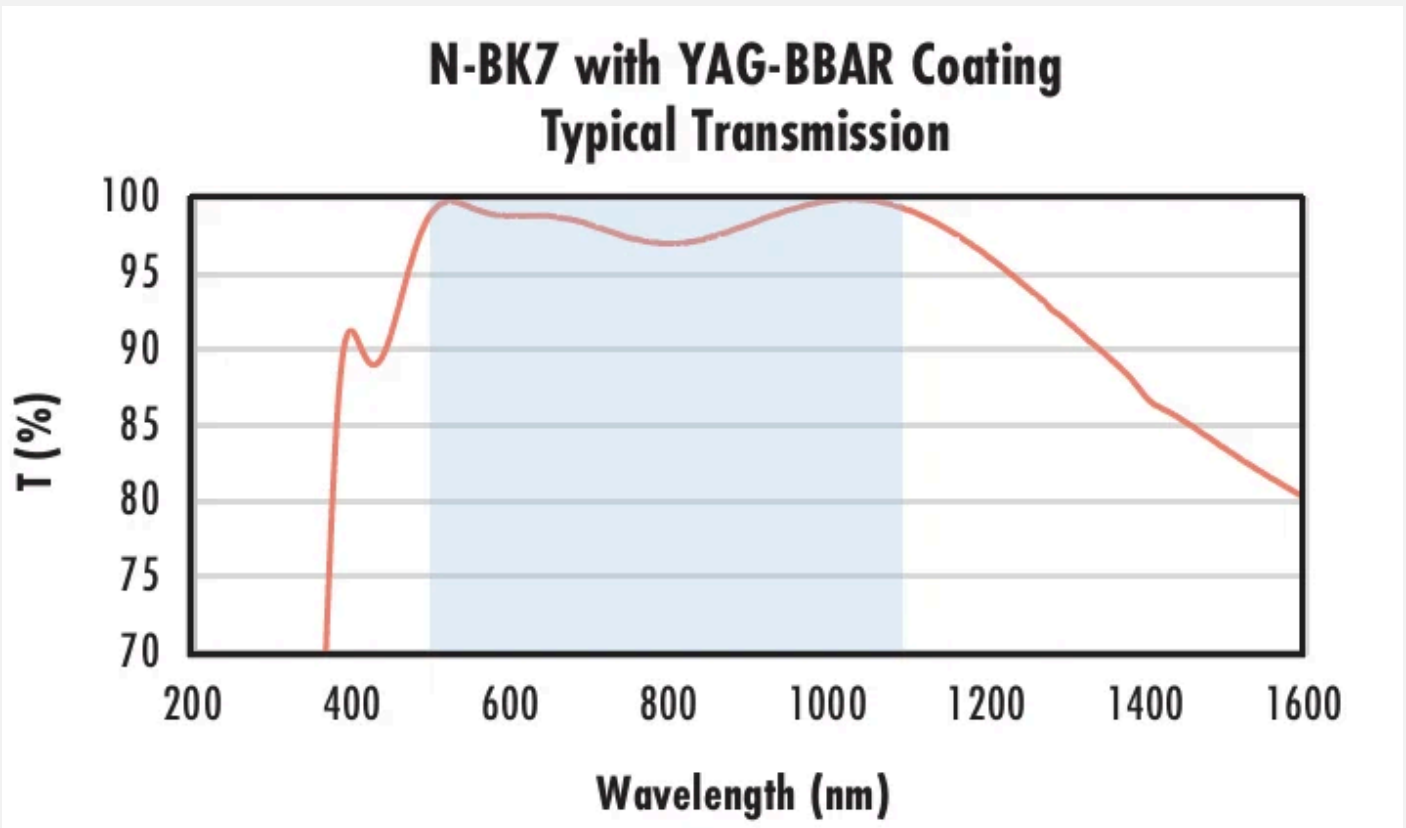

Typical transmission of a 3mm thick N-BK7 window w YAG-BBAR (500-1100nm) coating at 0° AOI.

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.

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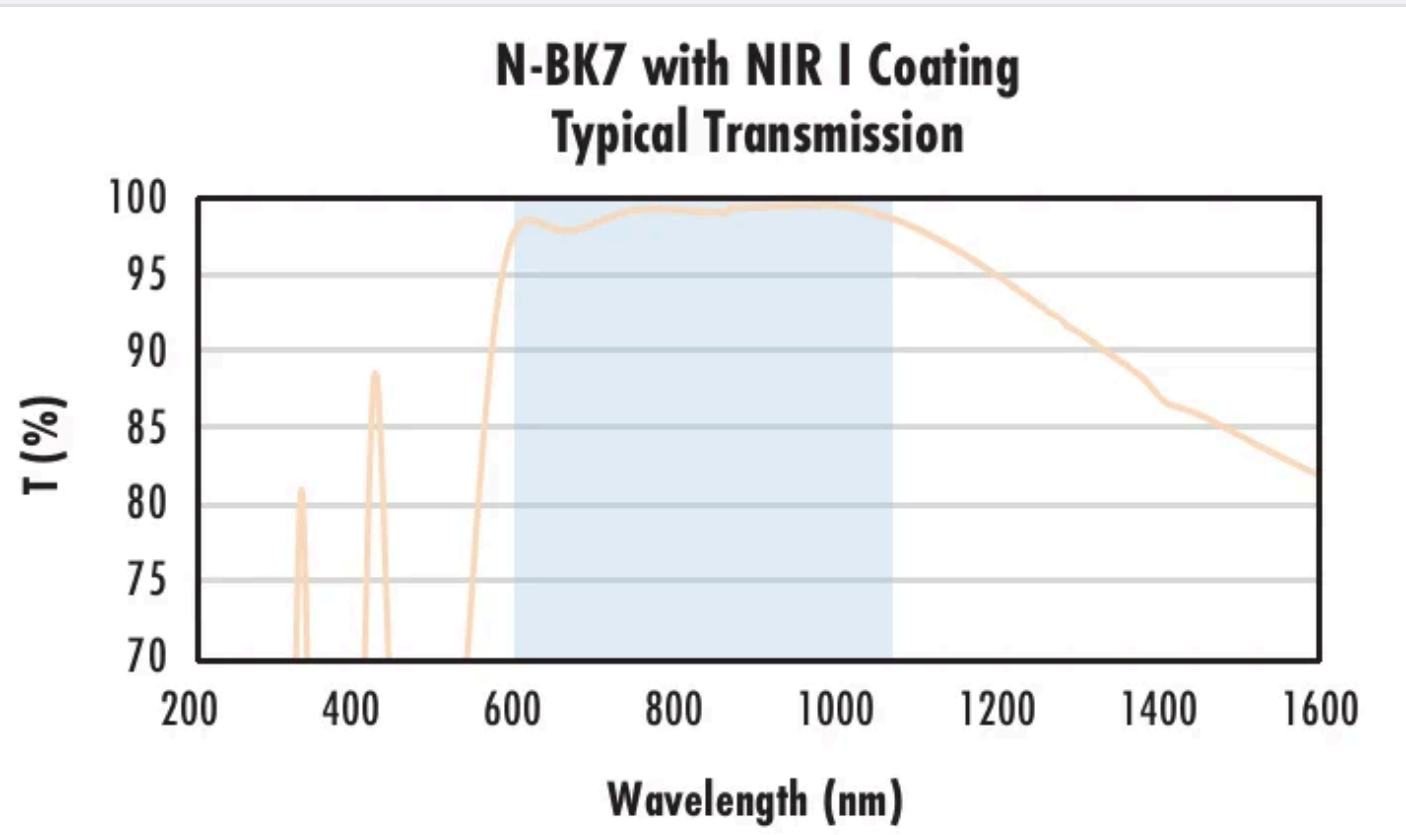

Typical transmission of a 3mm thick N-BK7 window witl I (600 - 1050nm) coating at 0° AOI.

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.

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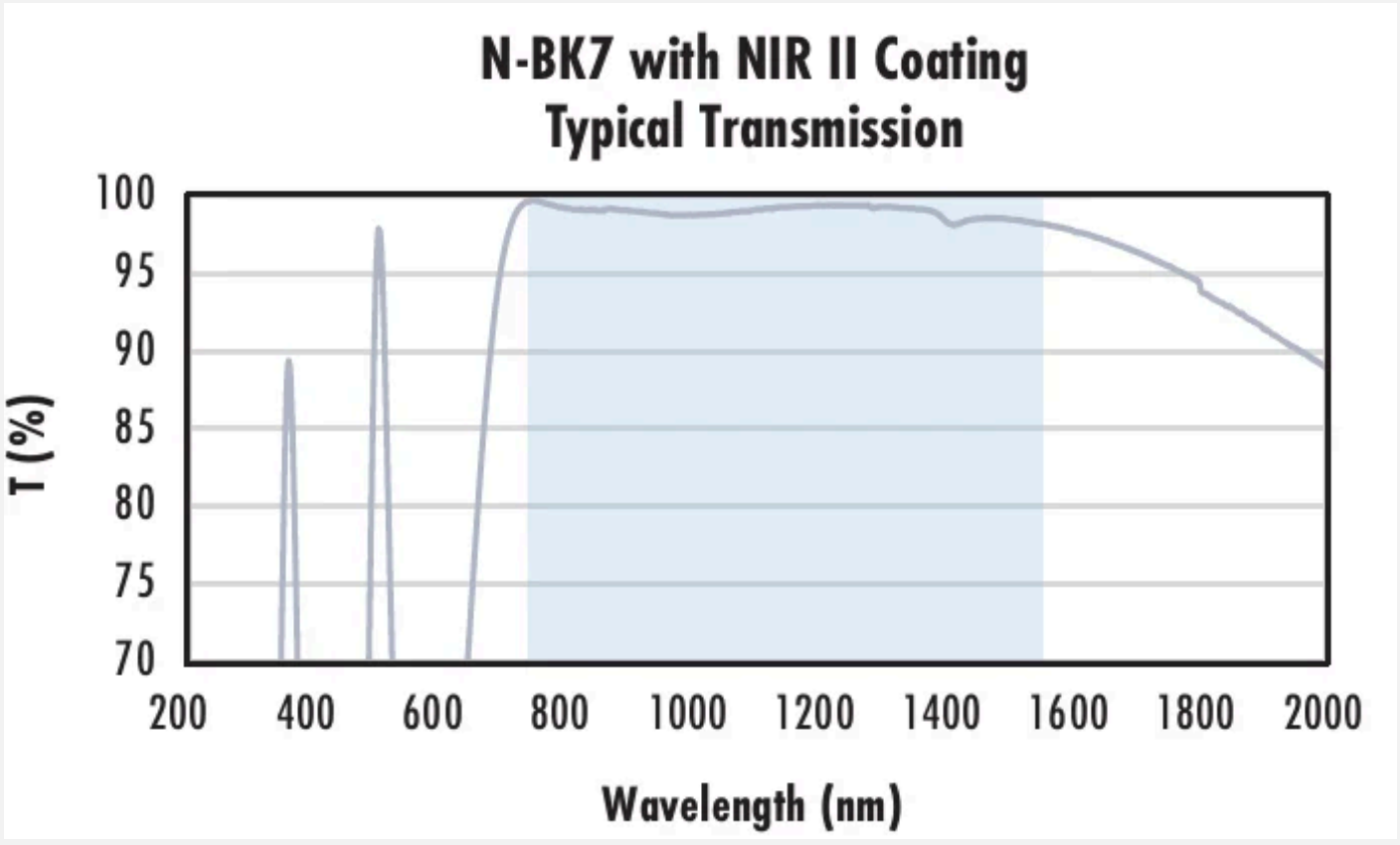

Typical transmission of a 3mm thick N-BK7 window witl
II (750 - 1550nm) coating at 0° AOI.

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

R_{abs} ≤ 1.5% @ 750 - 800nm
R_{abs} ≤ 1.0% @ 800 - 1550nm
R_{avg} ≤ 0.7% @ 750 - 1550nm

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

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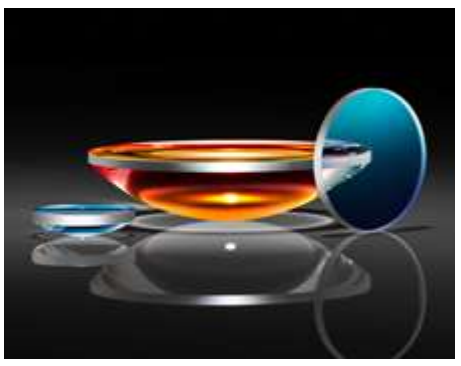
Related Products

VIS-EXT Coated Double-Convex (DCX) Lenses



UV Fused Silica Plano-Convex (PCX) Lenses - VIS-EXT Coated

Micro Plano-Convex (PCX) Lenses

Uncoated Plano-Convex (PCX) Lenses

Frequently Purchased Together

#53-984 - 4" x 4" Cloth Cleaning Wipes
C$50.75
Qty

#57-727 - Purosol Optical Cleaner 4 oz. Spray Bottle
C$39.55
Qty

#87-129 - LightPath 355375 | 6.51mm Dia., 0.30 NA, BBAR (350-700nm), Molded Aspheric Lens
C$105.00
Qty

#87-145 - LightPath 354105 | 7.2mm Dia., 0.56 NA, BBAR (350-700nm), Molded Aspheric Lens
C$124.60
Qty

Resources

Media Type

- Application Note
- Technical Tool

APPLICATION NOTE
Anti-Reflection (AR) Coatings

APPLICATION NOTE
An Introduction to Optical Coatings

APPLICATION NOTE
Understanding Optical Specifications

- [ ] Trending in Optics
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APPLICATION NOTE

Lens Geometry Performance Comparison

TECHNICAL TOOL

SAG Calculator

TRENDING IN OPTICS

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