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**TECHSPEC®**

# 25.4mm Dia. x 7mm Thick Standard Plano-Convex Lens

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Submit



Stock #62-603-INK [CONTACT US](#) [Other Coating Options](#)

- 1 +

€65<sup>,00</sup>

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### Volume Pricing

Qty 1-9 €65,00 each

Qty 10-24 €58,50 each

Qty 25-49 €52,00 each

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Prices shown are exclusive of VAT/local taxes

### Product Downloads

- STEP:stp
- PDF Drawing:pdf
- ISO 10110 Drawing
- IGES:igs
- Zemax:zar
- Zemax:zmx
- eDrawing:eprt
- Code V:seq
- EO Spec Sheet

## General

**Type:** Plano-Convex Lens

## Physical & Mechanical Properties

**Diameter (mm):** 25.40 ±0.025

**Centering (arcmin):** <1

**Center Thickness CT (mm):** 4.00 ±0.10

**Edge Thickness ET (mm):** 1.90

**Clear Aperture CA (mm):** 24.4

**Bevel:** Protective as needed

## Optical Properties

**Effective Focal Length EFL (mm):** 76.20 @ 587.6nm

**Back Focal Length BFL (mm):** 73.56

**Coating:** VIS-NIR (400-1000nm)

**Coating Specification:**  
R<sub>abs</sub> ≤0.25% @ 880nm  
R<sub>avg</sub> ≤1.25% @ 400 - 870nm  
R<sub>avg</sub> ≤1.25% @ 890 - 1000nm

**Substrate:** [N-BK7](#)

**Surface Quality:** 40-20

**Power (P-V) @ 632.8nm:** 1.5λ

**Irregularity (P-V) @ 632.8nm:** λ/4

**Focal Length Tolerance (%):** ±1

**Radius R<sub>1</sub> (mm):** 39.38

f/#: 3.00

Numerical Aperture NA: 0.17

Wavelength Range (nm): 400 - 1000

Damage Threshold: 5 J/cm<sup>2</sup> @ 532nm - 10ns

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### Regulatory Compliance

Certificate of Conformance: [View](#)

## 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](#).

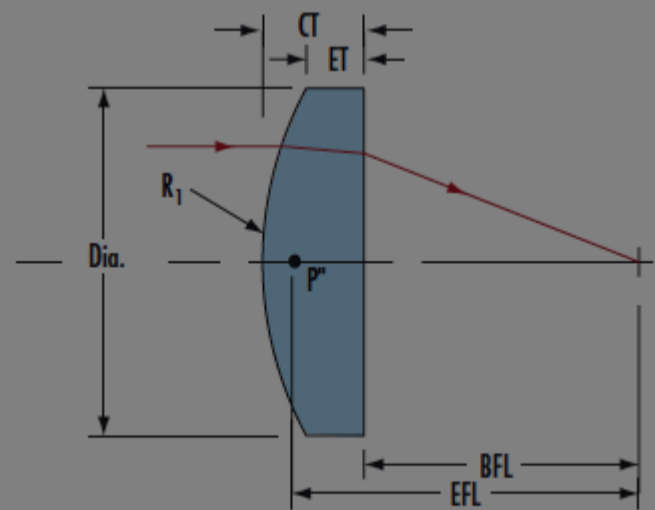
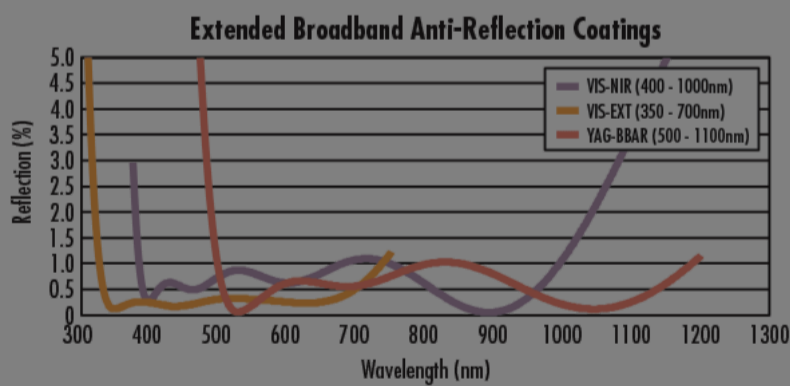
## Product Details

- AR Coated to Provide <1.25% Reflectance per Surface for 400 - 1000nm
- <0.25% Reflectance @ 880nm
- Designed for 0° Angle of Incidence
- Various PCX Coating Options: **Uncoated, MgF<sub>2</sub>, VIS 0°, NIR I, NIR II, VIS-EXT, and YAG-BBAR**

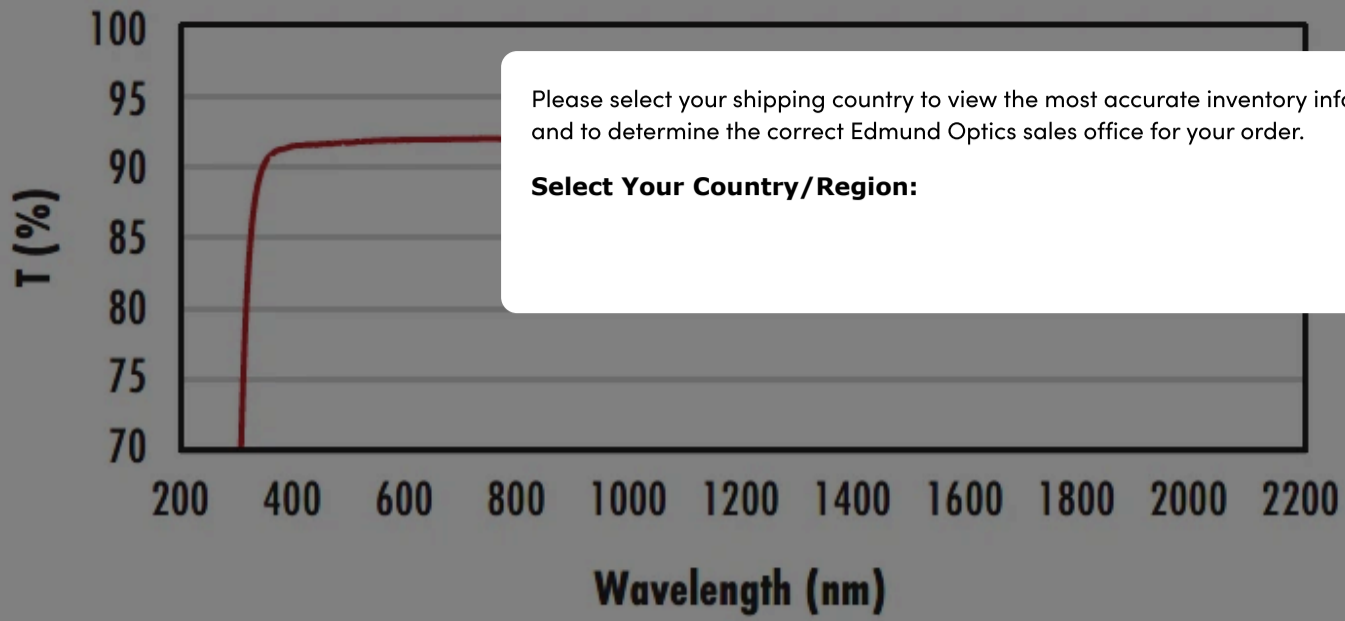
TECHSPEC® VIS-NIR Coated Plano-Convex (PCX) Lenses have a positive focal length, making them ideal for collecting and focusing light in imaging applications. They are also useful in a variety of applications involving emitters, detectors, lasers, and fiber optics. Plano-Convex lenses are ideal for a multitude of optics and photonics applications, including biotech instruments such as DNA sequencers and polymerase chain reaction (PCR) testing platforms. TECHSPEC® VIS-NIR 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 **MgF<sub>2</sub>, VIS 0°, NIR I, NIR II, VIS-EXT, and YAG-BBAR**.

These coated lenses are optimized for a wide range of optics and photonics applications, including biotech instruments such as DNA sequencers and polymerase chain reaction (PCR) testing platforms.

## Technical Information



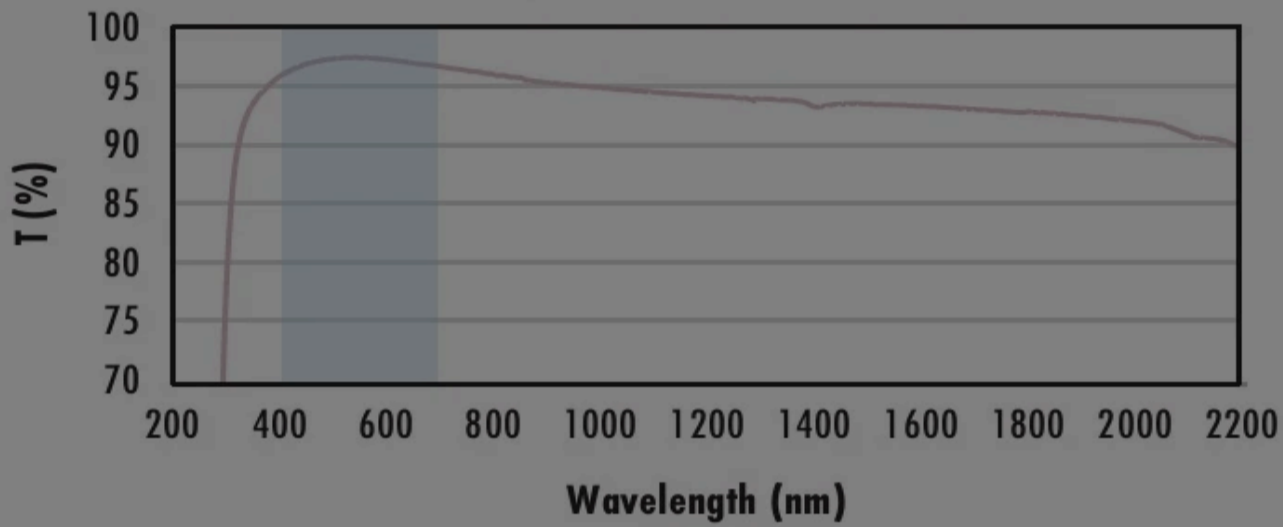
## Uncoated N-BK7 Typical Transmission



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

[Click Here to Download Data](#)

## N-BK7 with MgF<sub>2</sub> Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.

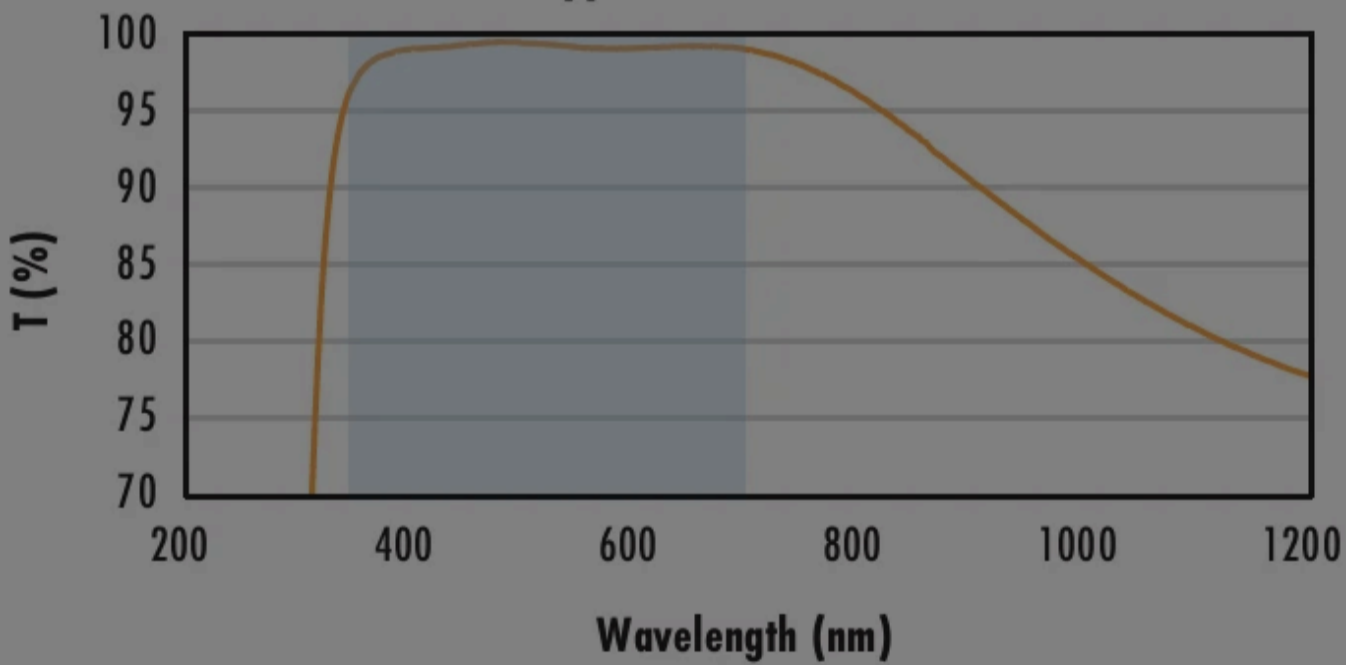
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

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## N-BK7 with VIS-EXT Coating Typical Transmission



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

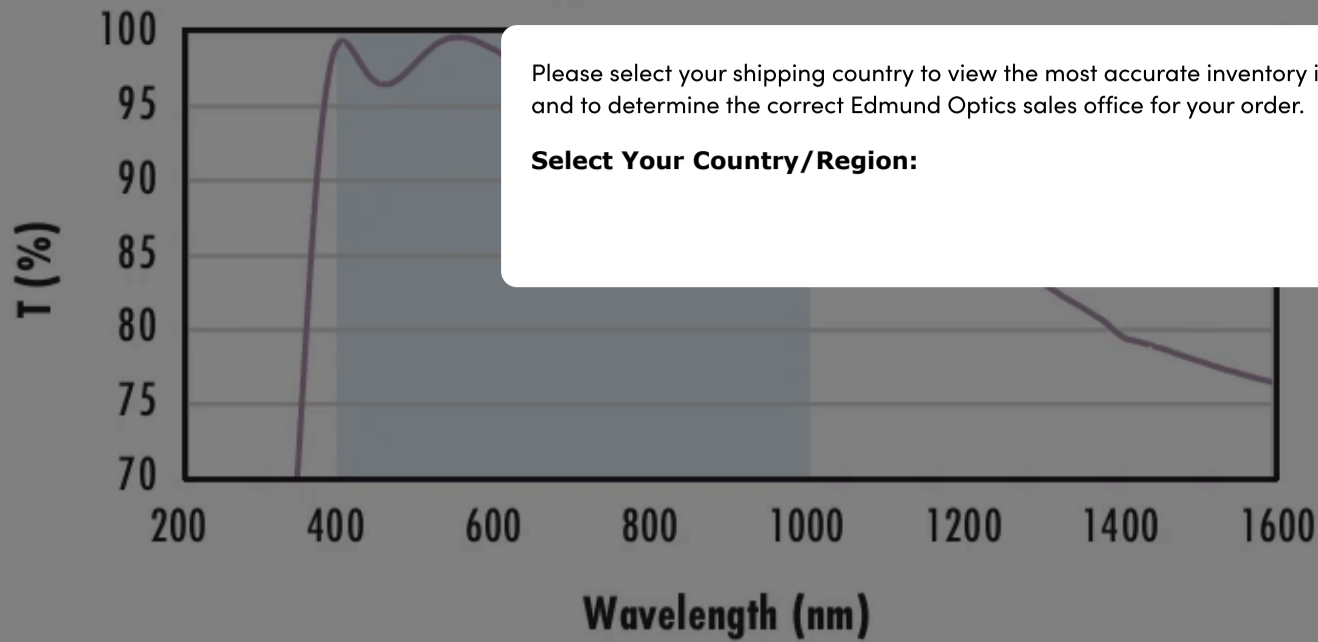
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

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## N-BK7 with VIS-NIR Coating Typical Transmission



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:

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

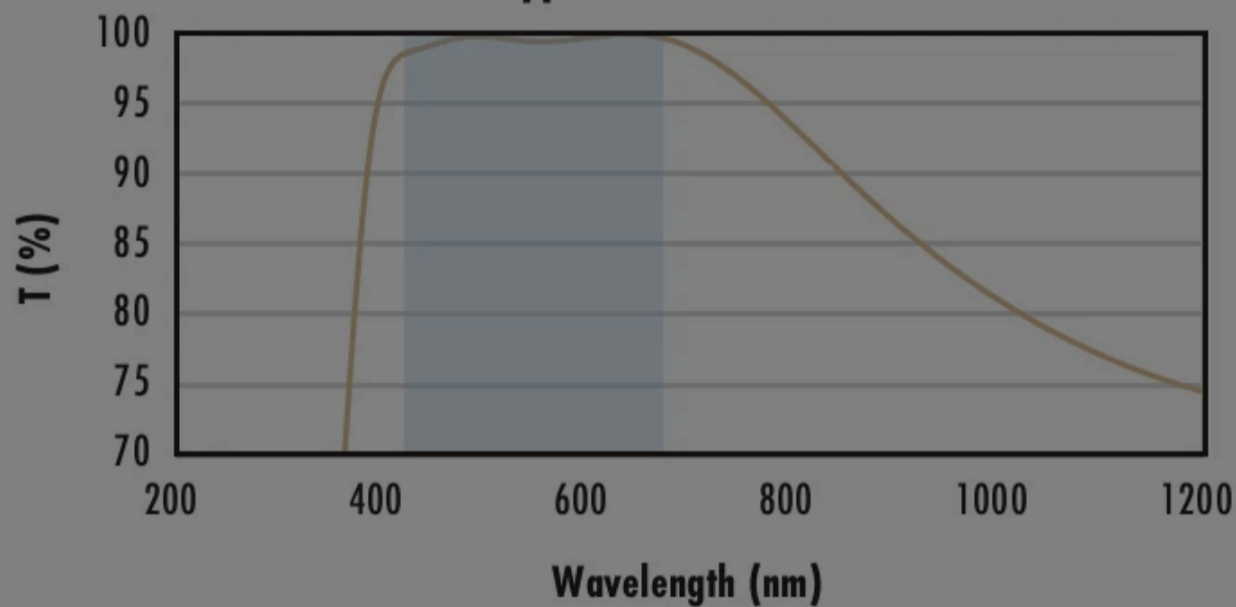
$$R_{avg} \leq 1.25\% @ 400 - 870nm$$

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

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

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## N-BK7 with VIS 0° Coating Typical Transmission



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

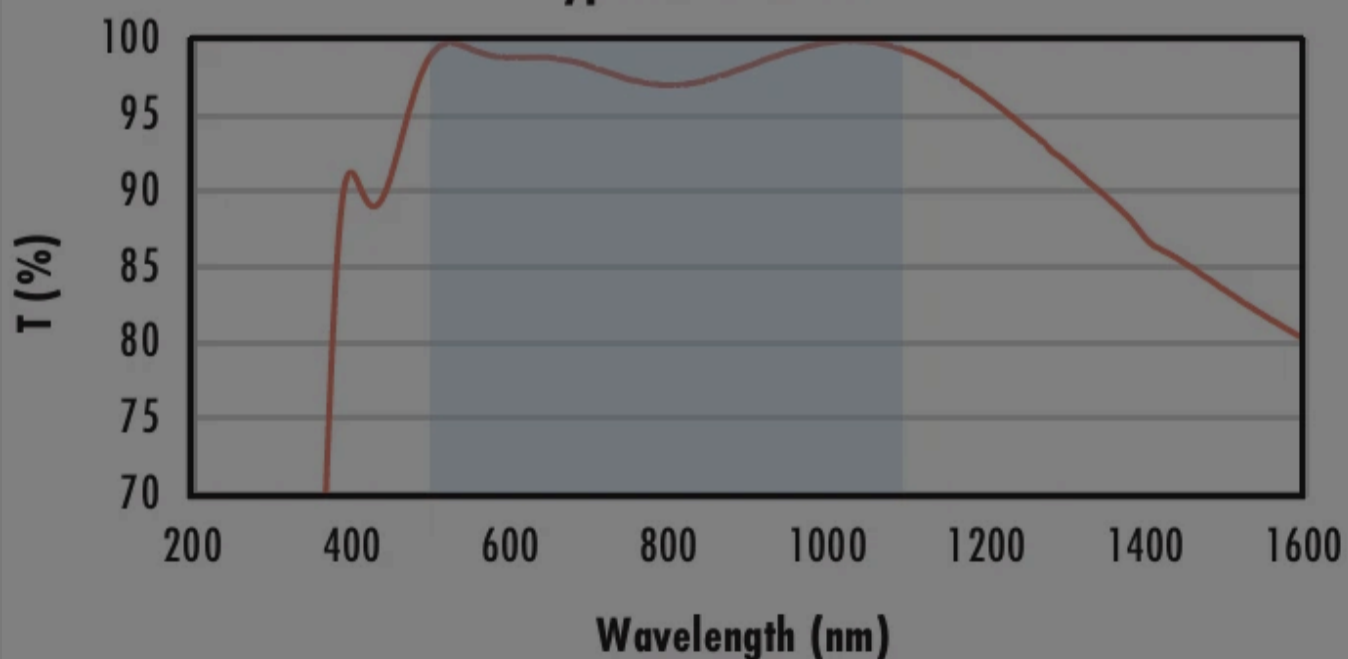
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

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## N-BK7 with YAG-BBAR Coating Typical Transmission



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

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

$$R_{abs} \leq 0.25\% @ 532nm$$

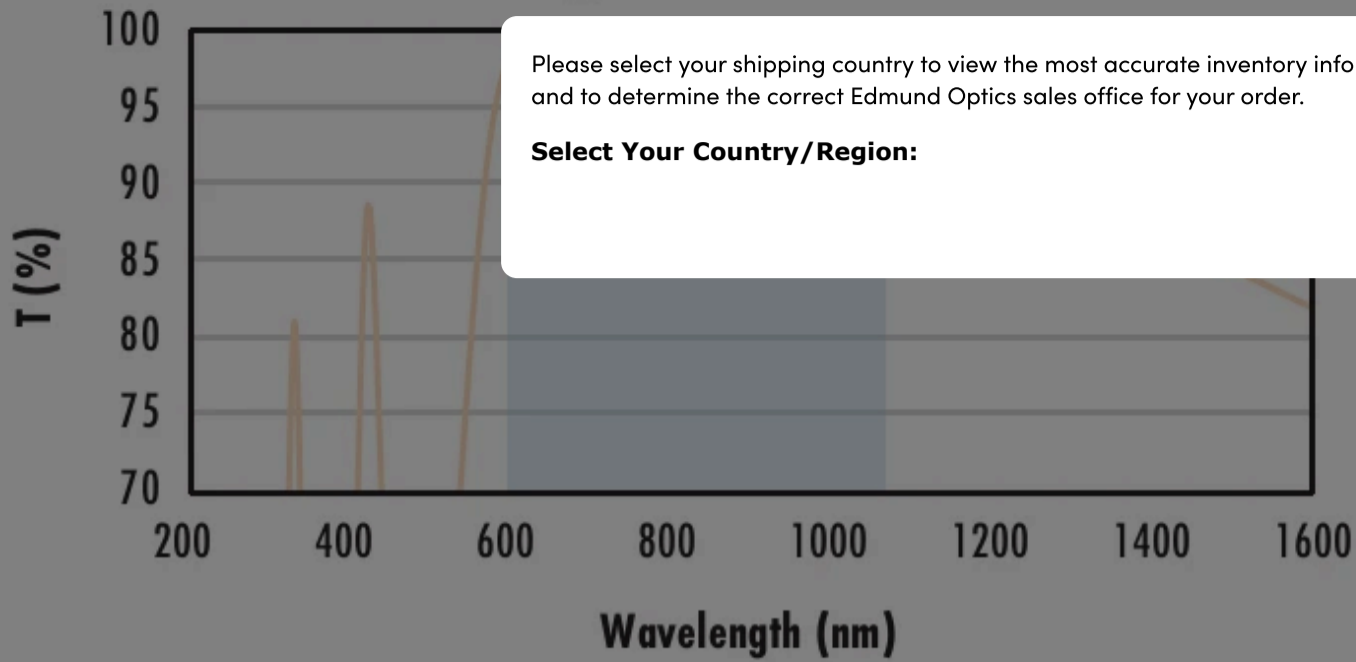
$$R_{abs} \leq 0.25\% @ 1064nm$$

$$R_{avg} \leq 1.0\% @ 500 - 1100nm$$

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

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## 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.

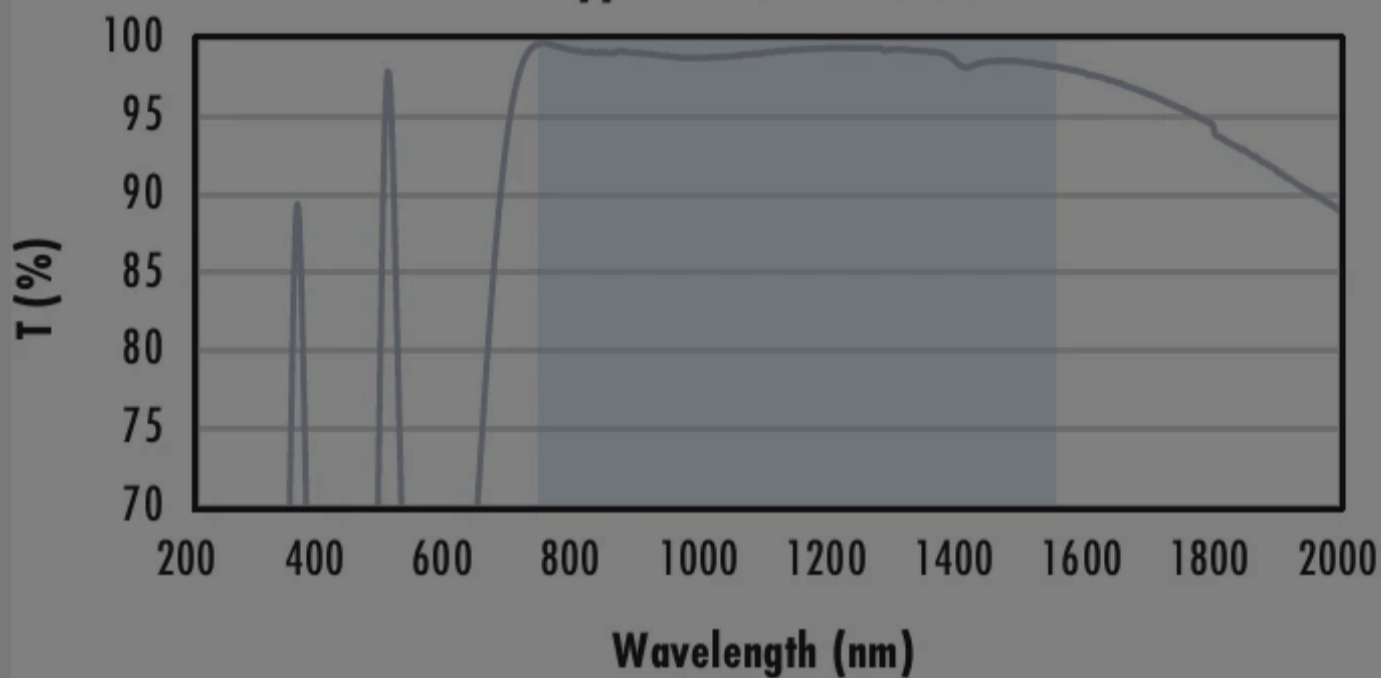
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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:

$$R_{abs} \leq 1.5\% \text{ @ } 750 - 800\text{nm}$$

$$R_{abs} \leq 1.0\% \text{ @ } 800 - 1550\text{nm}$$

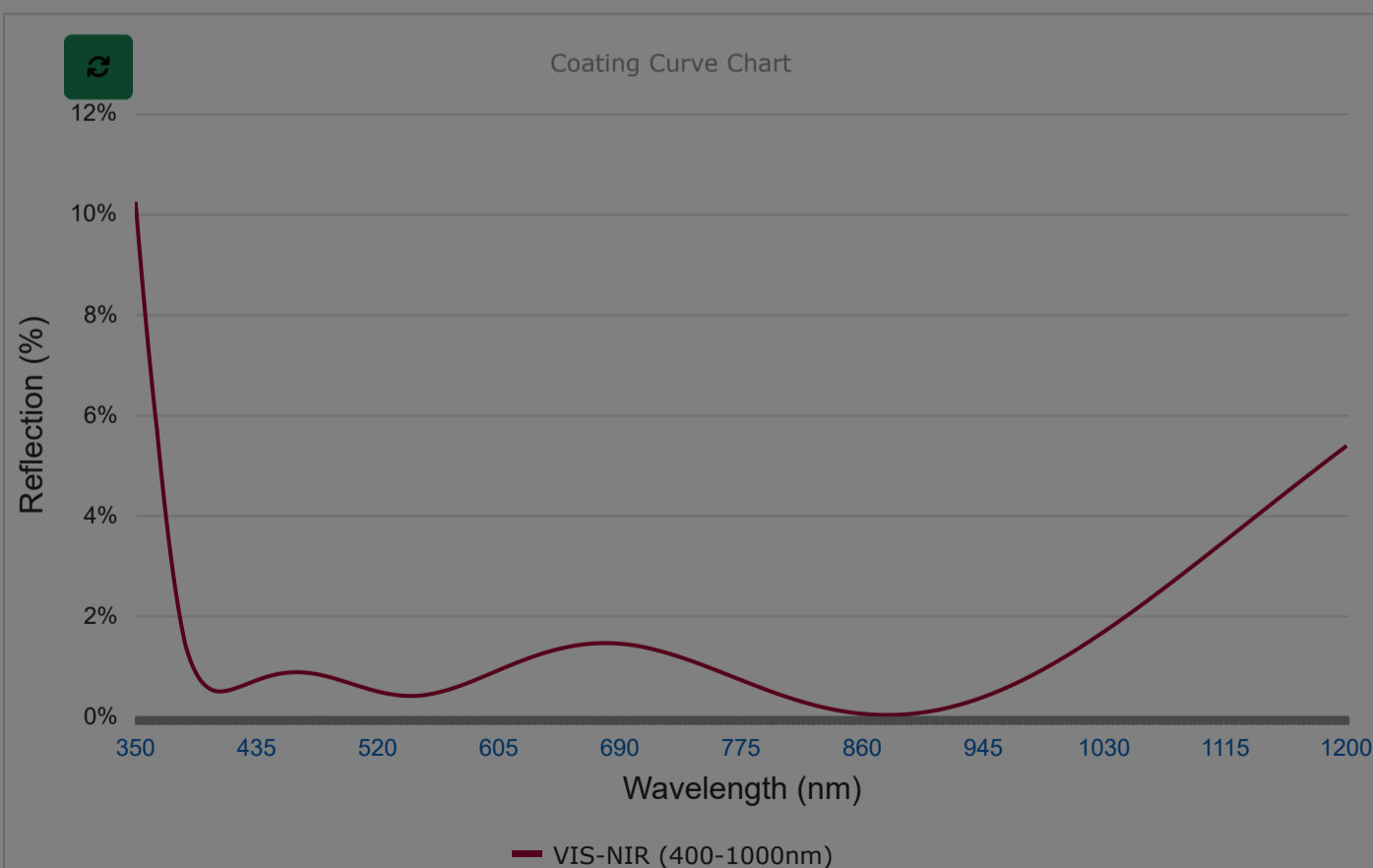
$$R_{avg} \leq 0.7\% \text{ @ } 750 - 1550\text{nm}$$

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

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## Coating Curves

VIS-NIR (400-1000nm)



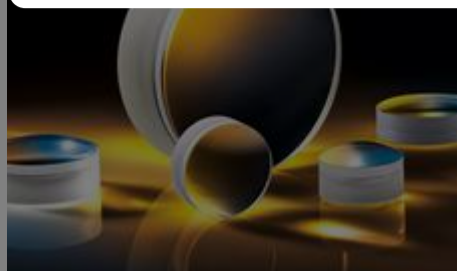
SHIFT + SELECT an area on CURVE to zoom

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Prematex® Cleaning/Wiping Cloths



VIS-NIR Coated Achromatic Lenses





VIS-NIR Coated Double-Convex (DCX) Lenses



Uncoated Plano-Convex (PCX) Lenses

## Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>	25.0/25.4mm Optic Dia., SM1 Thin Mount, M4	Fixed		#13-787	€21,00 <a href="#">Request Quote</a>	8 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	25.0/25.4mm Optic Dia., SM1 Thin Mount, 8-32	Fixed		#13-788	€21,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	25.4mm Optic Dia., 10mm Max Optic Thickness, Optic Mount	Fixed		#64-561	€32,75 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	25.4mm Optic Dia., 13mm Max Optic Thickness, Optic Mount	Fixed		#64-562	€32,75 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	25mm Thick Inner Single Optic Mount	Fixed		#38-758	€41,00 <a href="#">Request Quote</a>	7 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	25.4mm Inner Single Optic Mount	Fixed		#38-756	€41,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	25.0/25.4mm Optic Dia., L-Slot Direct Mount	Fixed		#36-410	€68,00 <a href="#">Request Quote</a>	15 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	25.0/25.4mm Optic Dia., Side Flange Direct Mount	Fixed		#36-414	€71,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	25/25.4mm Diameter, C-Mount Thin Optic Mount	Fixed		#56-353	€99,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	25.0/25.4mm Optic Dia., L-Slot and Rotation Direct Mount	Adjustable - Rotary		#36-411	€102,00 <a href="#">Request Quote</a>	5 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	25.0/25.4mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-956	€276,00 <a href="#">Request Quote</a>	2 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	25.0/25.4mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-959	€540,00 <a href="#">Request Quote</a>	6 In Stock <input type="text" value="1"/>

	Title	Type	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>		25.0/25.4mm Optic Dia., 5 Axes Mount	Adjustable -		€755,00	2 In Stock <input type="text" value="1"/> 

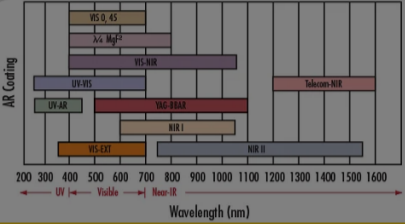
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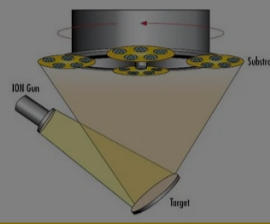
# Resources

## Media Type

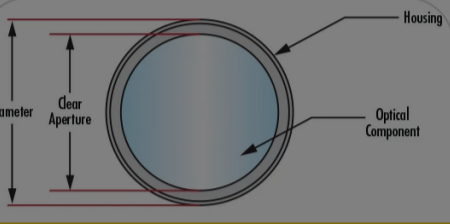
- Application Note
- Glossary
- Technical Tool
- Video
- FAQ
- Trending in Optics




**APPLICATION NOTE**  
**Anti-Reflection (AR) Coatings**




**APPLICATION NOTE**  
**An Introduction to Optical Coatings**



**APPLICATION NOTE**  
**Understanding Optical Specifications**



**APPLICATION NOTE**  
**Lens Geometry Performance Comparison**



**GLOSSARY**  
**NIR (Near Infrared)**



**GLOSSARY**  
**VIS/NIR Coating**

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