

TECHSPEC®

25.4mm Dia. x 88.9mm FL, VIS-NIR Coated, Plano-Convex Lens



Stock #62-604

3-4 DAYS

[Other Coating Options](#)

-

1

+

€49<sup>00</sup>

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| Qty 1-9                       |
| €49,00                        |
| Qty 10+                       |
| €44,00                        |
| Volume Pricing                |
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Prices shown are exclusive of VAT/local taxes

Product Downloads

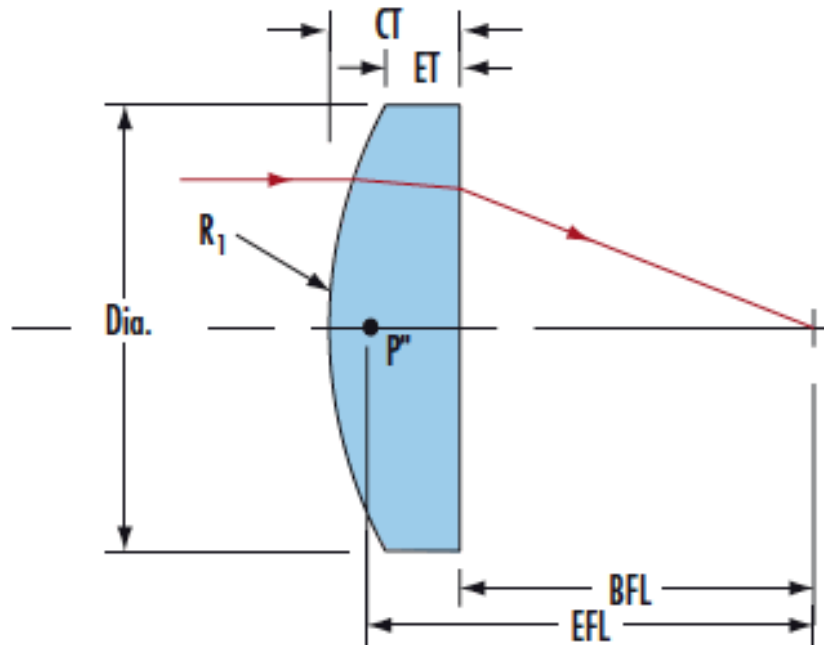
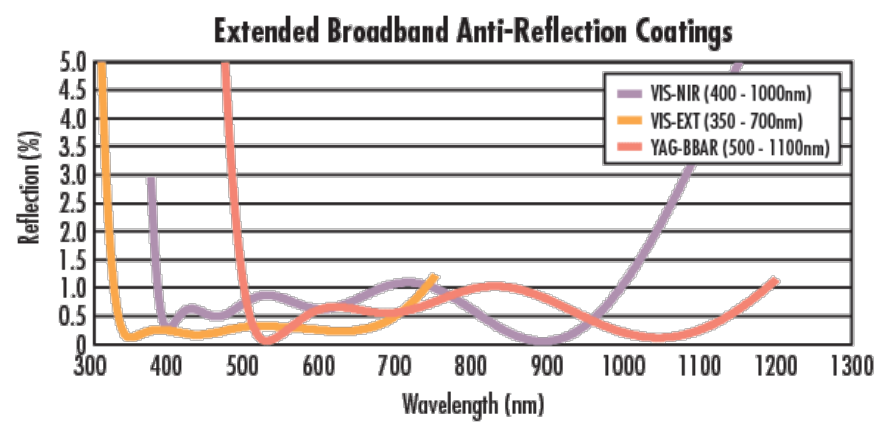
SPECIFICATIONS

| General                                                                                                            |                                                       |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Plano-Convex Lens                                                                                                  | Type:                                                 |
| Physical & Mechanical Properties                                                                                   |                                                       |
| 25.40 +0.0/-0.025                                                                                                  | Diameter (mm):                                        |
| <1                                                                                                                 | Centering (arcmin):                                   |
| 4.00 ±0.10                                                                                                         | Center Thickness CT (mm):                             |
| 2.21                                                                                                               | Edge Thickness ET (mm):                               |
| 24.4                                                                                                               | Clear Aperture CA (mm):                               |
| Protective bevel as needed                                                                                         | Bevel:                                                |
| Optical Properties                                                                                                 |                                                       |
| 88.90 @ 587.6nm                                                                                                    | Effective Focal Length EFL (mm):                      |
| 86.26                                                                                                              | Back Focal Length BFL (mm):                           |
| VS-NIR (400-1000nm)                                                                                                | Coating:                                              |
| R <sub>abs</sub> ≤0.25% @ 880nm<br>R <sub>avg</sub> ≤1.25% @ 400 - 870nm<br>R <sub>avg</sub> ≤1.25% @ 890 - 1000nm | Coating Specification:                                |
| <a href="#">N-BK7</a>                                                                                              | Substrate: <input type="checkbox"/>                   |
| 40-20                                                                                                              | Surface Quality:                                      |
| 1.5λ                                                                                                               | Power (P-V) @ 632.8nm:                                |
| λ/4                                                                                                                | Irregularity (P-V) @ 632.8nm:                         |
| ±1                                                                                                                 | Focal Length Tolerance (%):                           |
| 45.94                                                                                                              | Radius R <sub>1</sub> (mm):                           |
| 3.5                                                                                                                | f/#:                                                  |
| 0.14                                                                                                               | Numerical Aperture NA:                                |
| 400 - 1000                                                                                                         | Wavelength Range (nm):                                |
| 5 J/cm <sup>2</sup> @ 532nm, 10ns                                                                                  | Damage Threshold, By Design: <input type="checkbox"/> |
| Regulatory Compliance                                                                                              |                                                       |
| <a href="#">Compliant</a>                                                                                          | RoHS 2015:                                            |
| <a href="#">View</a>                                                                                               | Certificate of Conformance:                           |
| <a href="#">Compliant</a>                                                                                          | Reach 235:                                            |

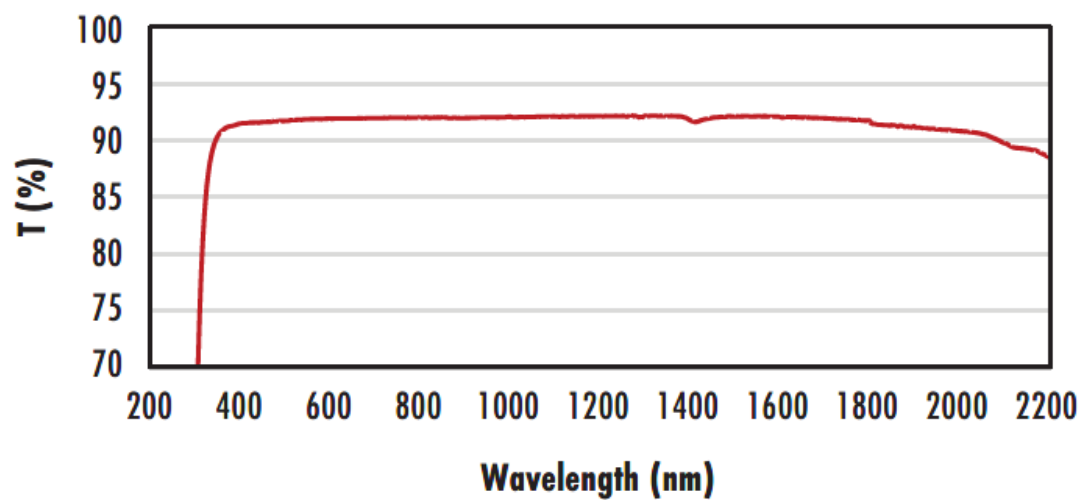
## PRODUCT DETAILS

- 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



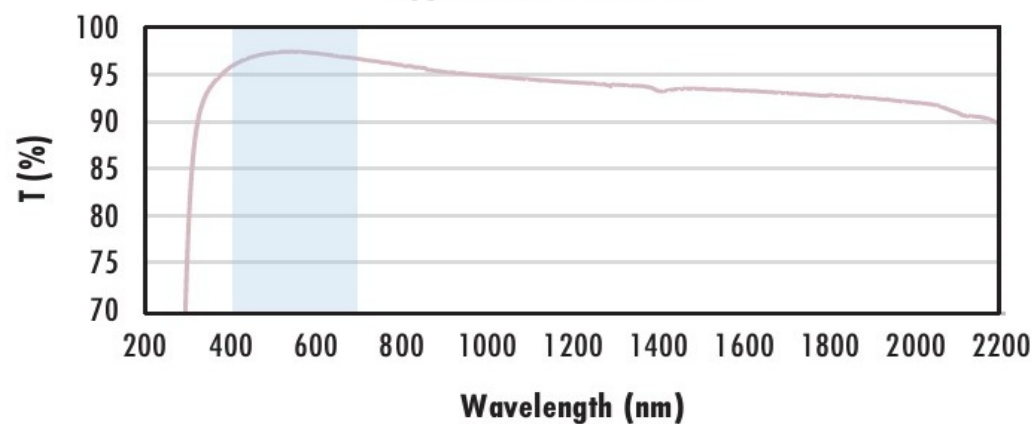
### Uncoated N-BK7 Typical Transmission



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.

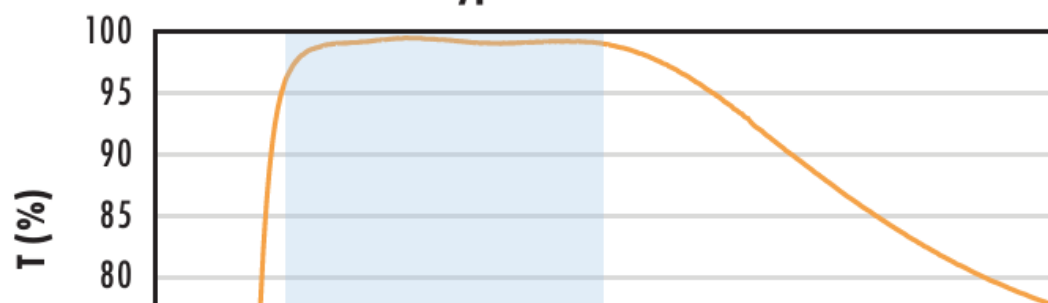
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

[Click Here to Download Data](#)

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

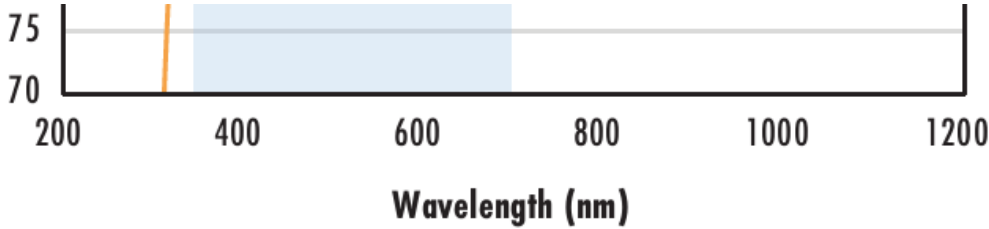
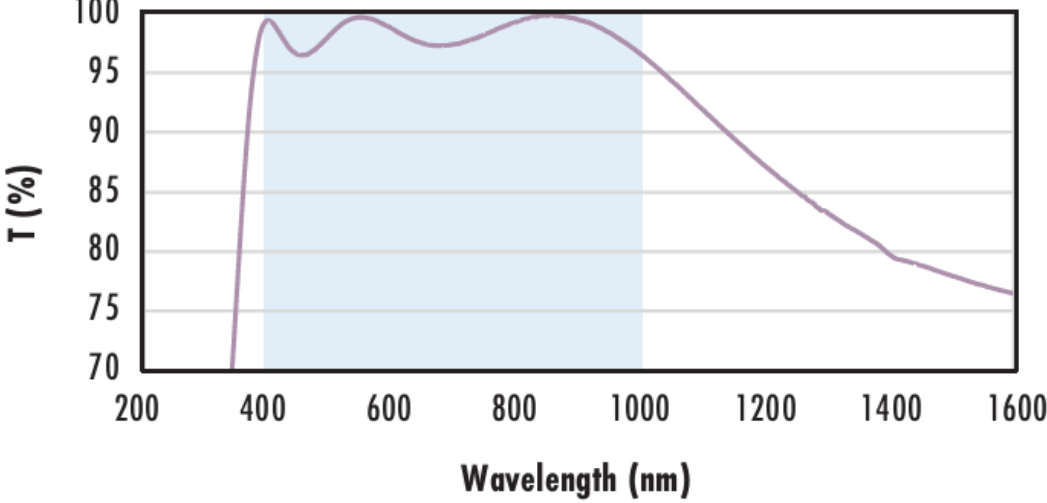
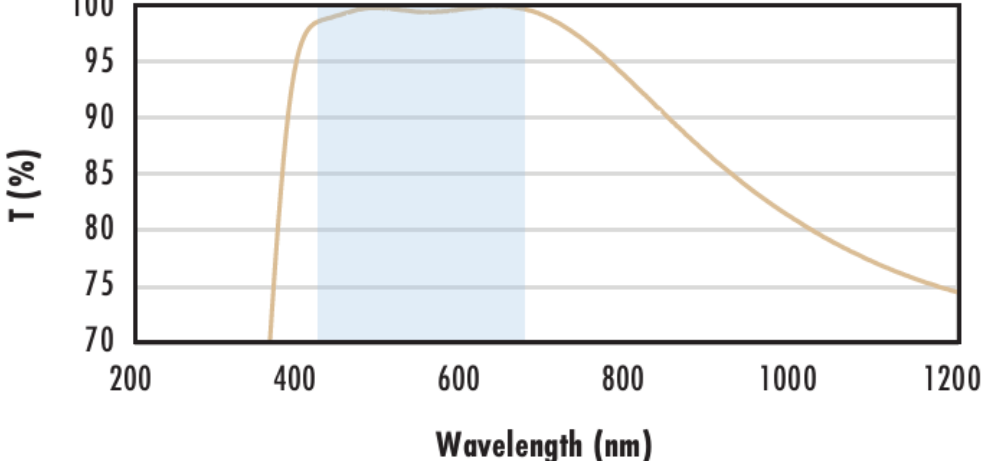
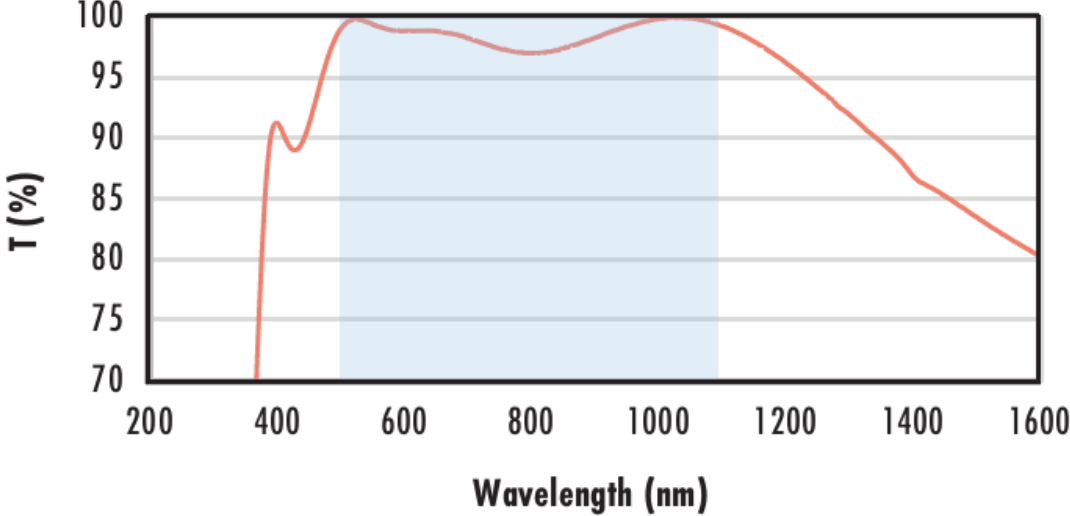
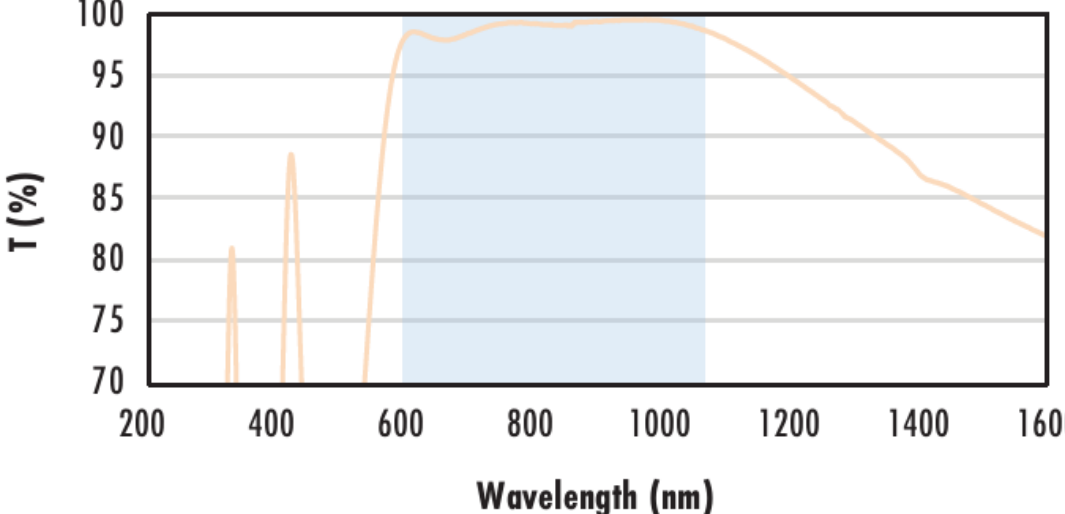


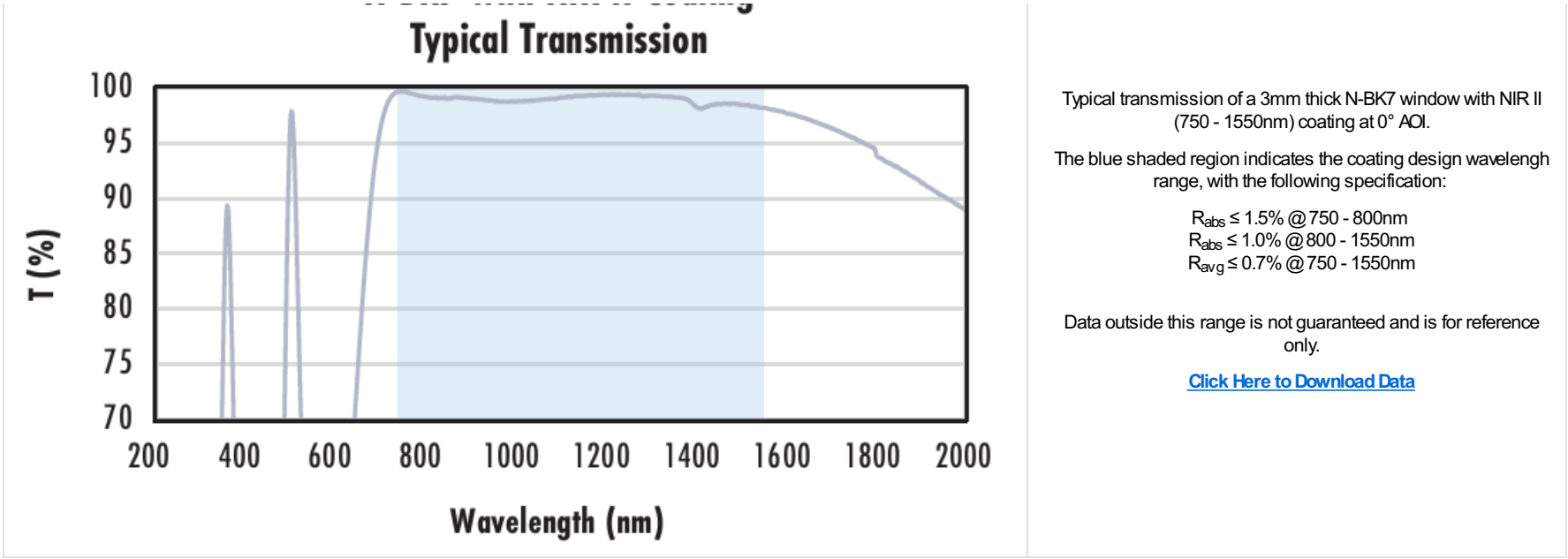
Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI.

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

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

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

|                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                              | <a href="#">Click Here to Download Data</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p data-bbox="583 335 1008 430"><b>N-BK7 with VIS-NIR Coating</b><br/><b>Typical Transmission</b></p>       | <p data-bbox="1335 454 1860 507">Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p data-bbox="1335 519 1860 572">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1472 584 1724 661"><p><math>R_{abs} \leq 0.25\% @ 880\text{nm}</math></p><p><math>R_{avg} \leq 1.25\% @ 400 - 870\text{nm}</math></p><p><math>R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}</math></p></div> <p data-bbox="1346 691 1850 744">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1478 756 1717 780"><a href="#">Click Here to Download Data</a></p>      |
| <p data-bbox="594 967 976 1062"><b>N-BK7 with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>      | <p data-bbox="1341 1101 1854 1154">Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p data-bbox="1335 1166 1860 1219">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1482 1231 1713 1255"><p><math>R_{avg} \leq 0.4\% @ 425 - 675\text{nm}</math></p></div> <p data-bbox="1346 1267 1850 1320">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1478 1332 1717 1356"><a href="#">Click Here to Download Data</a></p>                                                                                                                  |
| <p data-bbox="564 1570 1039 1665"><b>N-BK7 with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1346 1700 1850 1754">Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p data-bbox="1335 1765 1860 1819">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1476 1831 1717 1908"><p><math>R_{abs} \leq 0.25\% @ 532\text{nm}</math></p><p><math>R_{abs} \leq 0.25\% @ 1064\text{nm}</math></p><p><math>R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}</math></p></div> <p data-bbox="1346 1920 1850 1973">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1478 1985 1717 2009"><a href="#">Click Here to Download Data</a></p> |
| <p data-bbox="615 2205 1010 2300"><b>N-BK7 with NIR I Coating</b><br/><b>Typical Transmission</b></p>     | <p data-bbox="1346 2374 1850 2427">Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.</p> <p data-bbox="1335 2439 1860 2493">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1476 2504 1717 2528"><p><math>R_{avg} \leq 0.5\% @ 600 - 1050\text{nm}</math></p></div> <p data-bbox="1346 2540 1850 2594">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1478 2605 1717 2629"><a href="#">Click Here to Download Data</a></p>                                                                                                               |
| <p data-bbox="604 2858 1018 2899"><b>N-BK7 with NIR II Coating</b></p>                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |



## COATING CURVES

## 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