

TECHSPEC<sup>®</sup> 200m Dia., 10mm Thick, Uncoated  $\lambda$ /4 N-BK7 Window



Stock **#26-475** 2 In Stock

-

1

+

€770<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €770,00 each                  |
| Qty 6-25       | €615,00 each                  |
| Qty 26-49      | €575,00 each                  |
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!

 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Protective Window

Physical & Mechanical Properties

Clear Aperture CA (mm):

180

Diameter (mm):

200.00 +0.00/-0.25

|                      |                          |
|----------------------|--------------------------|
| 10.00 ±0.20          | Thickness (mm):          |
| <1                   | Parallelism (arcmin):    |
| Protective as needed | Bevel:                   |
| 90                   | Clear Aperture (%):      |
| Fine Ground          | Edges:                   |
| 0.21                 | Poisson's Ratio:         |
| 82                   | Young's Modulus (GPa):   |
| 610.00               | Knoop Hardness (kg/mm²): |

Optical Properties

|                                            |                                        |
|--------------------------------------------|----------------------------------------|
| Uncoated                                   | Coating:                               |
| <a href="#">N-BK7</a>                      | Substrate: <input type="checkbox"/>    |
| 1.516                                      | Index of Refraction (n <sub>d</sub> ): |
| 60-40                                      | Surface Quality:                       |
| $\lambda/4$ (per inch over clear aperture) | Transmitted Wavefront, P-V:            |
| 64.17                                      | Abbe Number (v <sub>d</sub> ):         |
| 350 - 2200                                 | Wavelength Range (nm):                 |

Material Properties

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

Regulatory Compliance

|                           |                             |
|---------------------------|-----------------------------|
| <a href="#">Compliant</a> | RoHS 2015:                  |
| <a href="#">View</a>      | Certificate of Conformance: |
| <a href="#">Compliant</a> | Reach 247:                  |

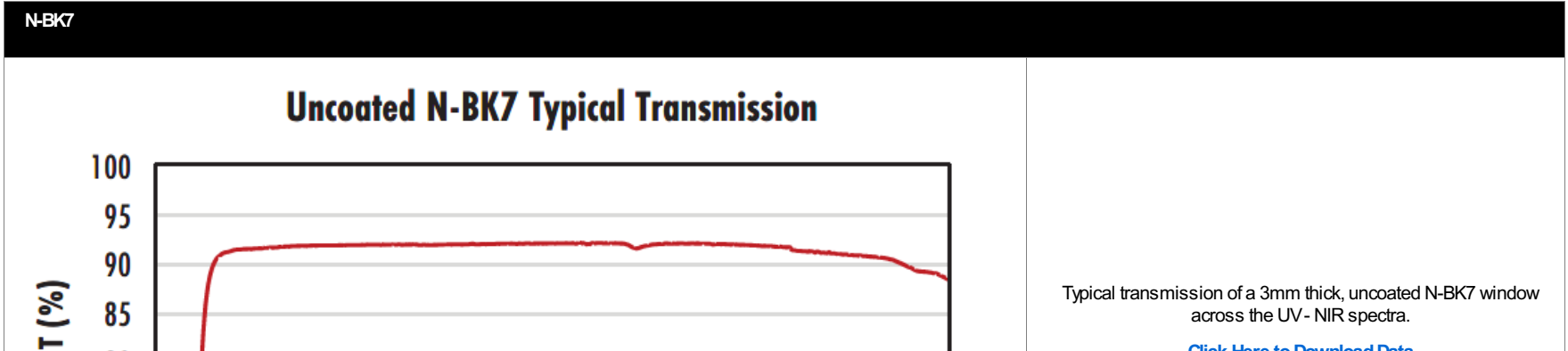
## Product Details

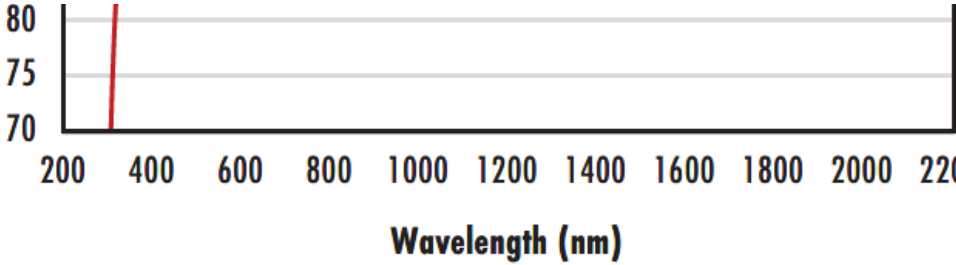
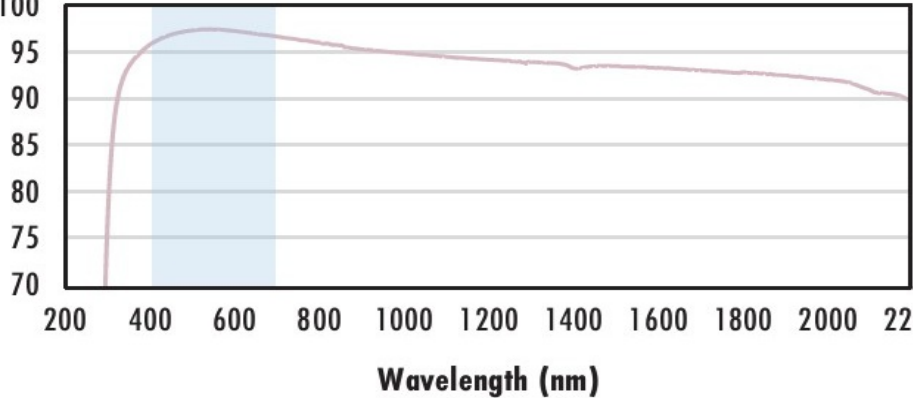
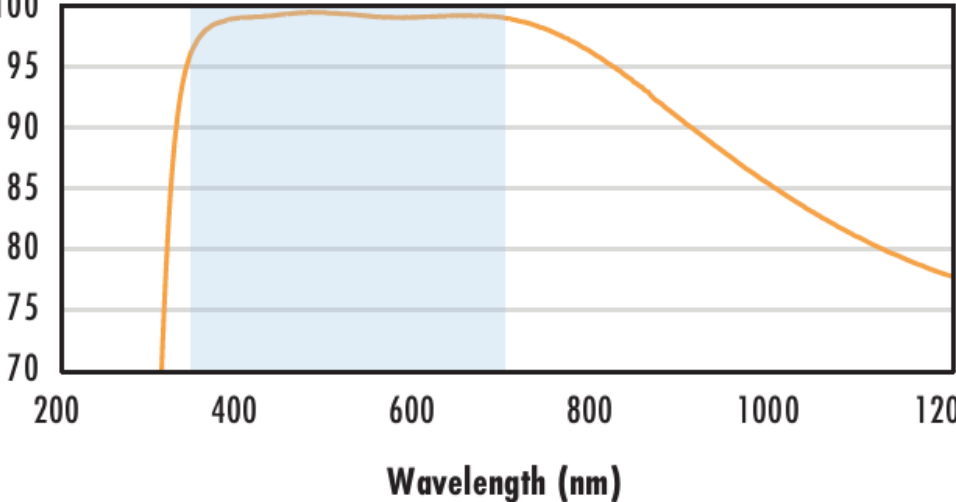
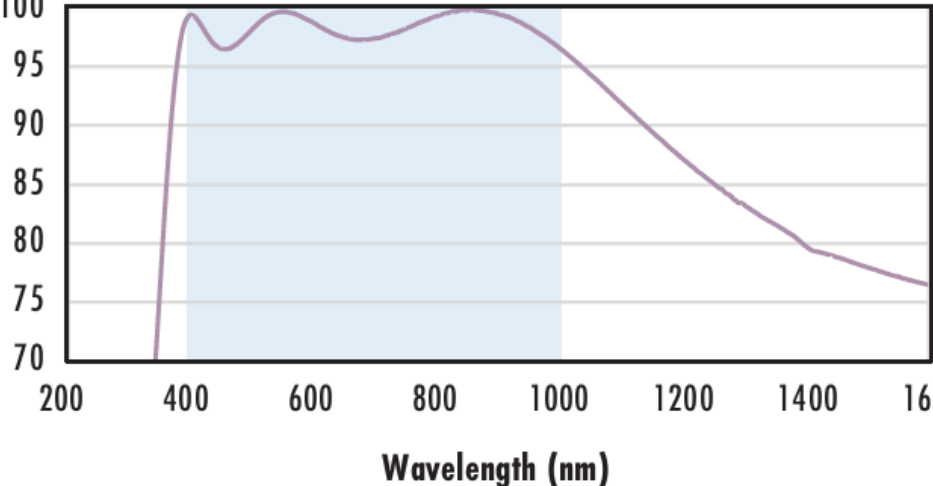
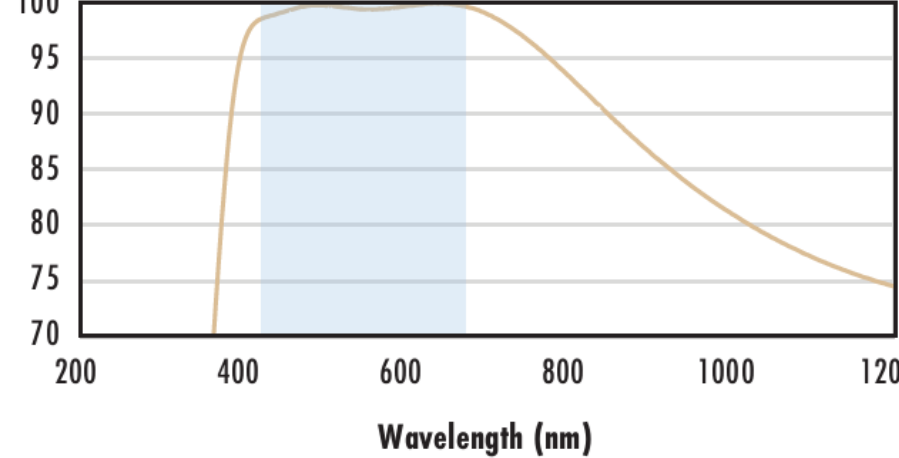
- Circular and Rectangular Sizes from 2mm to 200mm
- 8 Broadband Anti-Reflection Coating Options Available
- World's Largest Selection of Standard N-BK7 Windows
- Also Available with [Ultra-Thin N-BK7 Windows](#)

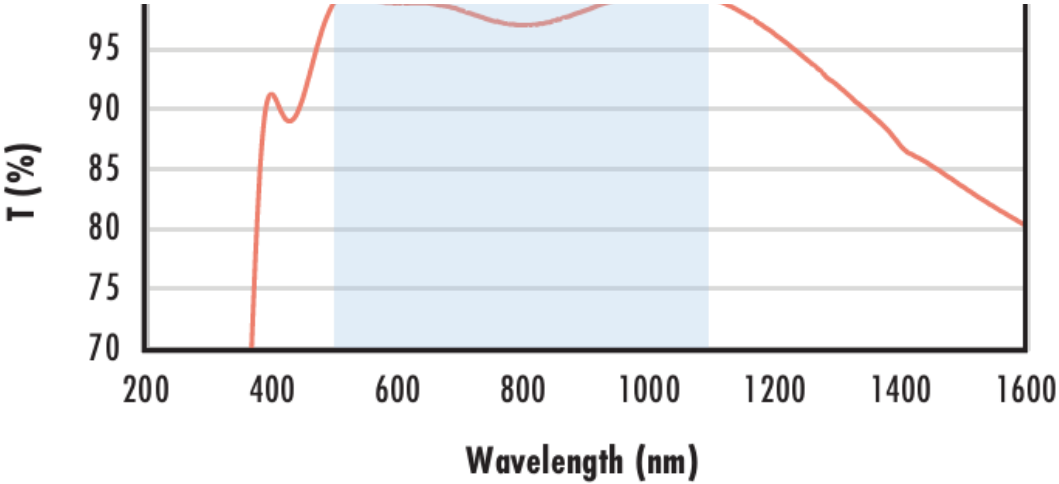
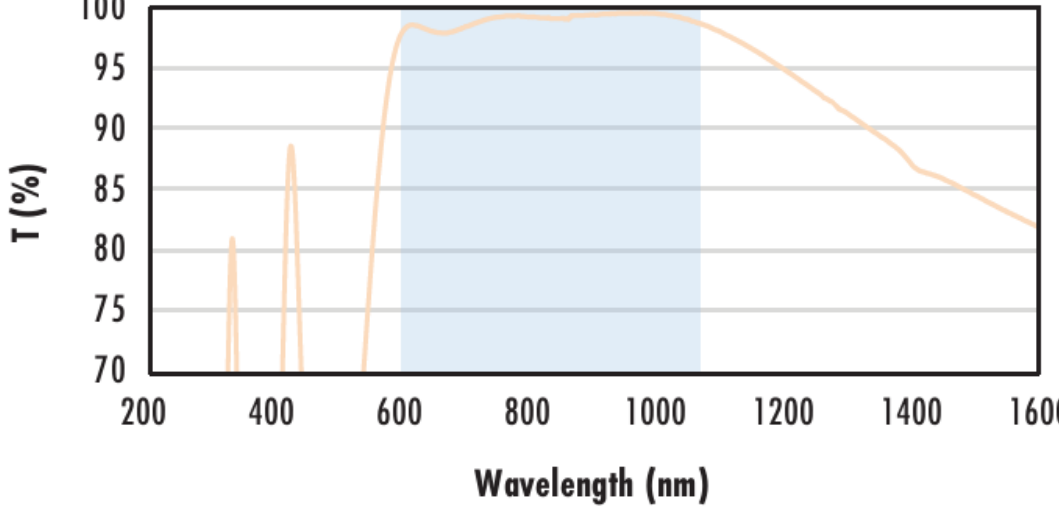
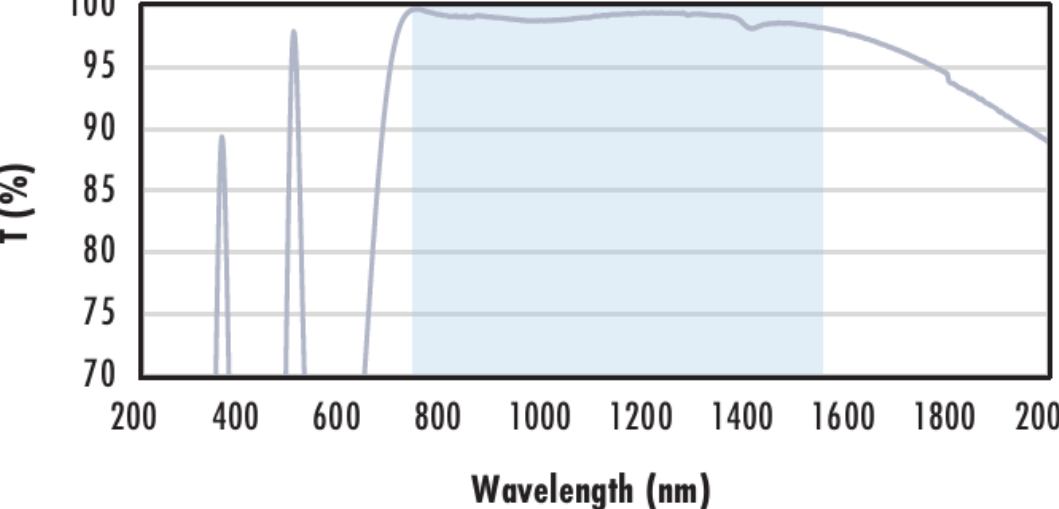
TECHSPEC®  $\lambda/4$  N-BK7 Precision Windows are ideally suited for industrial and low-power laser applications. The high tolerance design yields minimal beam distortion and scatter. Broadband coating options extend the range of these precision windows through the visible and near-infrared spectra. TECHSPEC®  $\lambda/4$  N-BK7 Precision Windows are offered in circular and rectangular sizes ranging from 2mm to 200mm.

**Note:** New additions to this product family may be specified with a transmitted wavefront distortion (TWD) specification instead of a surface flatness. For more information on the difference between these two specifications, see our application note on [Understanding Optical Windows](#).

## Technical Information



|                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                | <a href="#">Click Here to Download Data</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p data-bbox="590 388 953 471"><b>N-BK7 with MgF<sub>2</sub> Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1339 477 1843 525">Typical transmission of a 3mm thick N-BK7 window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.</p> <p data-bbox="1339 543 1850 590">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1436 602 1745 629"><math>R_{avg} \leq 1.75\% @ 400 - 700\text{nm (N-BK7)}</math></p> <p data-bbox="1339 641 1839 688">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 703 1707 727"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                 |
| <p data-bbox="590 905 1016 1000"><b>N-BK7 with VIS-EXT Coating</b><br/><b>Typical Transmission</b></p>      | <p data-bbox="1331 1074 1856 1121">Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI.</p> <p data-bbox="1331 1136 1850 1184">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 1196 1703 1222"><math>R_{avg} \leq 0.5\% @ 350 - 700\text{nm}</math></p> <p data-bbox="1339 1234 1839 1282">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 1297 1707 1320"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                        |
| <p data-bbox="590 1543 1005 1638"><b>N-BK7 with VIS-NIR Coating</b><br/><b>Typical Transmission</b></p>     | <p data-bbox="1331 1662 1856 1709">Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p data-bbox="1331 1724 1850 1771">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 1783 1688 1807"><math>R_{abs} \leq 0.25\% @ 880\text{nm}</math></p> <p data-bbox="1478 1807 1709 1831"><math>R_{avg} \leq 1.25\% @ 400 - 870\text{nm}</math></p> <p data-bbox="1478 1831 1713 1855"><math>R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}</math></p> <p data-bbox="1339 1896 1839 1944">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 1958 1707 1982"><a href="#">Click Here to Download Data</a></p> |
| <p data-bbox="590 2163 974 2258"><b>N-BK7 with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>       | <p data-bbox="1339 2300 1843 2347">Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p data-bbox="1331 2362 1850 2410">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 2421 1703 2448"><math>R_{avg} \leq 0.4\% @ 425 - 675\text{nm}</math></p> <p data-bbox="1339 2460 1839 2507">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 2522 1707 2546"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                         |
| <p data-bbox="569 2757 1037 2852"><b>N-BK7 with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

|                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                             | <p>Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 0.25\%</math> @ 532nm<br/><math>R_{abs} \leq 0.25\%</math> @ 1064nm<br/><math>R_{avg} \leq 1.0\%</math> @ 500 - 1100nm</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>           |
| <p><b>N-BK7 with NIR I Coating</b><br/><b>Typical Transmission</b></p>    | <p>Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{avg} \leq 0.5\%</math> @ 600 - 1050nm</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                       |
| <p><b>N-BK7 with NIR II Coating</b><br/><b>Typical Transmission</b></p>  | <p>Typical transmission of a 3mm thick N-BK7 window with NIR II (750 - 1550nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 1.5\%</math> @ 750 - 800nm<br/><math>R_{abs} \leq 1.0\%</math> @ 800 - 1550nm<br/><math>R_{avg} \leq 0.7\%</math> @ 750 - 1550nm</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p> |

## 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](#).