

TECHSPEC<sup>®</sup> 6mm Diameter x -15 FL, VIS 0°, Inked, Plano-Concave Lens



Stock **#48-690-INK** [CONTACT US](#)  
[Other Coating Options](#)

-

1

+

€55<sup>.50</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | €55,50 each                   |
| Qty 10-25      | €49,75 each                   |
| Qty 26-49      | €44,50 each                   |
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 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Plano-Concave Lens

Type:

Physical & Mechanical Properties

|                      |                |
|----------------------|----------------|
| 6.00 ±0.025          | Diameter (mm): |
| Protective as needed | Bevel:         |

|       |                                  |
|-------|----------------------------------|
| 2.00  | Center Thickness CT (mm):        |
| ±0.05 | Center Thickness Tolerance (mm): |

|     |                         |
|-----|-------------------------|
| <1  | Centering (arcmin):     |
| 5.4 | Clear Aperture CA (mm): |

|      |                         |
|------|-------------------------|
| 2.49 | Edge Thickness ET (mm): |
|------|-------------------------|

Optical Properties

|        |                                     |
|--------|-------------------------------------|
| -15.00 | Effective Focal Length EFL (mm):    |
| N-BK7  | Substrate: <input type="checkbox"/> |

|      |                        |
|------|------------------------|
| 2.5  | f/#:                   |
| 0.20 | Numerical Aperture NA: |

|                    |                        |
|--------------------|------------------------|
| VIS 0° (425-675nm) | Coating:               |
| 425 - 675          | Wavelength Range (nm): |

|                                      |                             |
|--------------------------------------|-----------------------------|
| -16.32                               | Back Focal Length BFL (mm): |
| R <sub>avg</sub> ≤0.4% @ 425 - 675nm | Coating Specification:      |

|       |                                             |
|-------|---------------------------------------------|
| 587.6 | Focal Length Specification Wavelength (nm): |
| ±1    | Focal Length Tolerance (%):                 |

|       |                             |
|-------|-----------------------------|
| -7.75 | Radius R <sub>1</sub> (mm): |
| 40-20 | Surface Quality:            |

|                                   |                                                       |
|-----------------------------------|-------------------------------------------------------|
| 5 J/cm <sup>2</sup> @ 532nm, 10ns | Damage Threshold, By Design: <input type="checkbox"/> |
| 1.5λ                              | Power (P-V) @ 632.8nm:                                |

|     |                               |
|-----|-------------------------------|
| λ/4 | Irregularity (P-V) @ 632.8nm: |
|-----|-------------------------------|

Regulatory Compliance

|      |                             |
|------|-----------------------------|
| View | Certificate of Conformance: |
|------|-----------------------------|

## Product Details

- AR Coated to Provide <0.4% Reflectance per Surface for 425 - 675nm
- Designed for 0° Angle of Incidence
- Various Coating Options: [Uncoated](#), [VIS-EXT](#), [MgF<sub>2</sub>](#), [VIS-NIR](#), [YAG-BBAR](#), [NIR I](#), and [NIR II](#)

TECHSPEC® VIS 0° Coated Plano-Concave (PCV) Lenses are designed to bend parallel input rays to diverge from one another on the output side of the lens causing this lens to have a negative focal length. These lenses can be used for balancing aberrations created by other lenses within a system due to their negative spherical aberration. Plano-Concave (PCV) lenses are commonly used in a variety of applications including image reduction, beam expansion, and telescopes. TECHSPEC VIS 0° Coated Plano-Concave (PCV) Lenses are best used in 0° angle of incidence situations and provide optimized transmission in the 425nm – 675nm range. These lenses are also available [Uncoated](#), [VIS-EXT](#), [MgF<sub>2</sub>](#), [VIS-NIR](#), [YAG-BBAR](#), [NIR I](#), or with [NIR II](#) AR coating options.

## Technical Information



N-BK7

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.

[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:

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

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:

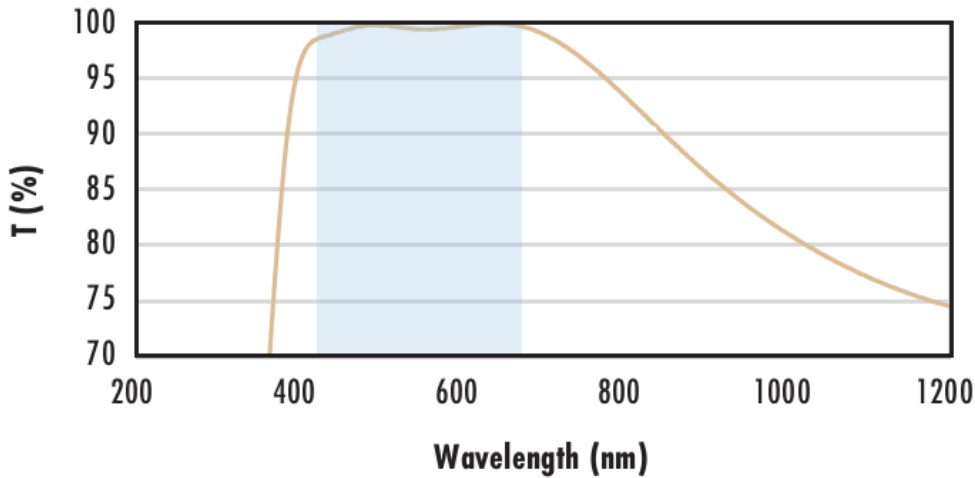
$$\begin{aligned} R_{abs} &\leq 0.25\% \text{ @ } 880\text{nm} \\ R_{avg} &\leq 1.25\% \text{ @ } 400 - 870\text{nm} \\ R_{avg} &\leq 1.25\% \text{ @ } 890 - 1000\text{nm} \end{aligned}$$



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 VIS 0° (425-675nm) coating at 0° AOI.

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

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

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

[Click Here to Download Data](#)

**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:

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

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

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

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.

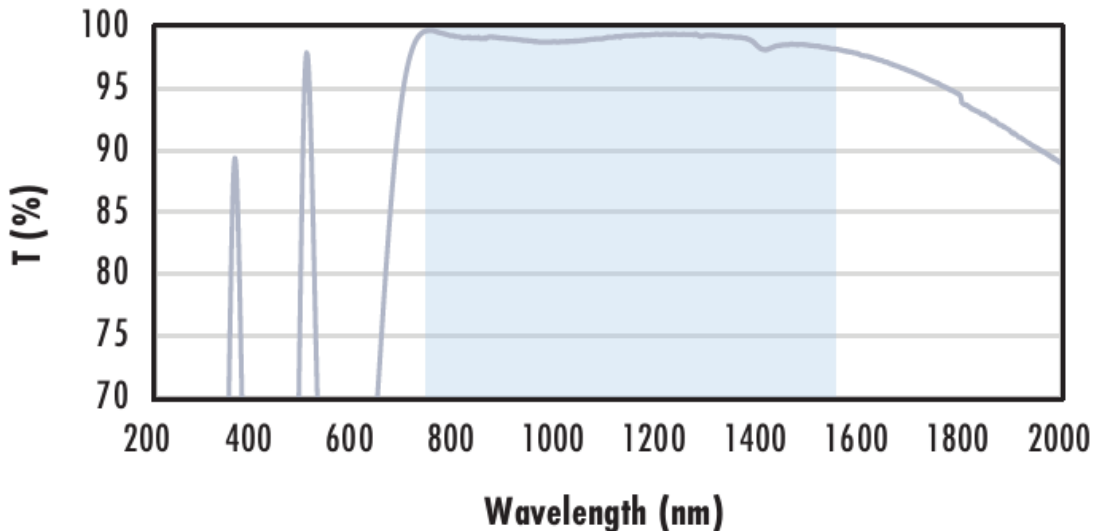
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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.

[Click Here to Download Data](#)

# 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

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