

TECHSPEC<sup>®</sup> Plankonvexe Linse, 15 mm D. x 40 mm BW, VIS-EXT-beschichtet



Produkt **#88-698** 11 In Stock

[Andere Beschichtungen](#)

-

1

+

€50<sup>.00</sup>

+ WARENKORB

| Mengenrabatte |                                 |
|---------------|---------------------------------|
| Stk. 1-9      | €50,00 stückpreis               |
| Stk. 10-24    | €44,75 stückpreis               |
| Stk. 25-49    | €40,00 stückpreis               |
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ⓘ Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails

Plano-Convex Lens

Typ:

Physikalische und mechanische Eigenschaften

|                      |                             |
|----------------------|-----------------------------|
| 15.00 +0.0/-0.025    | Durchmesser (mm):           |
| <1                   | Zentrierung (Bogenminuten): |
| 3.00 ±0.10           | Mittendicke CT (mm):        |
| 1.59                 | Randdicke ET (mm):          |
| 14                   | Freie Apertur CA (mm):      |
| Protective as needed | Fase:                       |

Optische Eigenschaften

|                                      |                                                        |
|--------------------------------------|--------------------------------------------------------|
| 40.00 @ 587.6nm                      | Effektive Brennweite EFL (mm):                         |
| 38.02                                | Hintere Brennweite BFL (mm):                           |
| VIS-EXT (350-700nm)                  | Beschichtung:                                          |
| R <sub>avg</sub> <0.5% @ 350 - 700nm | Beschichtungsspezifikation:                            |
| N-BK7                                | Substrat: <input type="checkbox"/>                     |
| 40-20                                | Oberflächenqualität:                                   |
| 1.5λ                                 | Power (P-V) @ 632,8 nm:                                |
| λ/4                                  | Unregelmäßigkeit (P-V) @ 632,8 nm:                     |
| ±1                                   | Toleranz Brennweite (%):                               |
| 20.67                                | Radius R <sub>1</sub> (mm):                            |
| 2.67                                 | Blende:                                                |
| 0.19                                 | Numerische Apertur NA:                                 |
| 350 - 700                            | Wellenlängenbereich (nm):                              |
| 5 J/cm <sup>2</sup> @ 532nm, 10ns    | Zerstörschwelle, laut Design: <input type="checkbox"/> |

Konformität mit Standards

|          |                         |
|----------|-------------------------|
| Konform  | RoHS 2015:              |
| Anzeigen | Konformitätszertifikat: |
| Konform  | Reach 235:              |

## Gewünschte Spezifikationen nicht dabei?

Edmund Optics bietet einen umfangreichen kundenspezifischen Fertigungsservice für Optik- und Bildverarbeitungskomponenten an, speziell hergestellt für Ihre Anwendungsanforderungen. Wir ermöglichen flexible Lösungen für Ihre Bedürfnisse – von der Prototypenphase bis zur Serienfertigung. Unsere erfahrenen IngenieurInnen freuen sich auf die Zusammenarbeit und unterstützen Sie bei jedem Projektschritt.

Unser Service beinhaltet:

- Kundenspezifische Abmessungen, Materialien und mehr
- Hochpräzise Oberflächenqualität und -ebenheit
- Enge Toleranzen und komplexe Formen
- Skalierbare Produktion – vom Prototypen zur Serie

Erfahren Sie mehr über unsere [kundenspezifischen Fertigungsmöglichkeiten](#) oder senden Sie [hier](#) eine Anfrage.

## Produktdetails

- Breitband-Antireflexbeschichtung für das sichtbare Spektrum mit verbesserten UV-Eigenschaften
- Reflexion pro Oberfläche <0,5% im Bereich von 350 – 700 nm
- Für 0° Einfallswinkel ausgelegt
- Verschiedene Beschichtungen erhältlich: [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [NIR II](#) und [YAG-BBAR](#) oder [unbeschichtet](#)

TECHSPEC® Plankonvexe Linsen (PCX) mit VIS-EXT-Beschichtung haben eine positive Brennweite und sind ideal für die Fokussierung von Licht in abbildenden Anwendungen. Sie können gut in Verbindung mit Emittern, Detektoren, Lasern und Faseroptiken eingesetzt werden. TECHSPEC® Plankonvexe Linsen (PCX) mit VIS-EXT-Beschichtung sind in einer Vielzahl von Durchmessern und Brennweiten erhältlich. Identische Designs dieser Linsen werden auch [unbeschichtet](#) oder mit breitbandigen Antireflexionsbeschichtungen (BBAR) angeboten, dazu gehören [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [NIR II](#) und [YAG-BBAR](#).

Technische Informationen



N-BK7

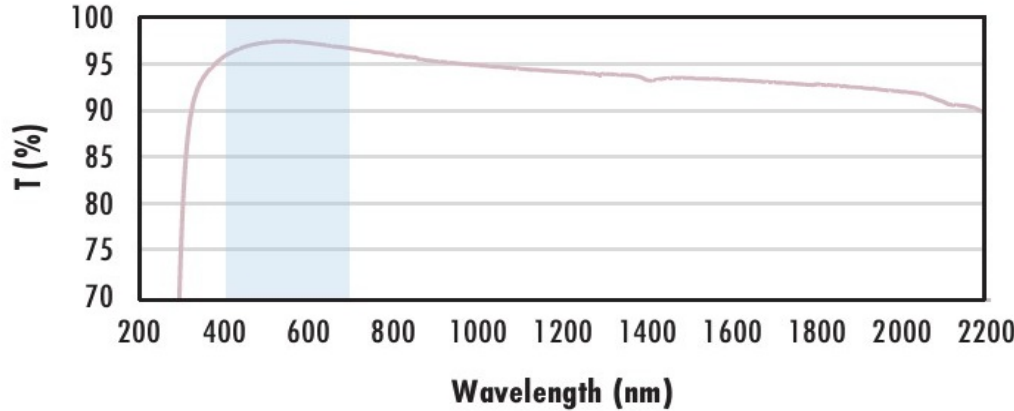
Uncoated N-BK7 Typical Transmission



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.

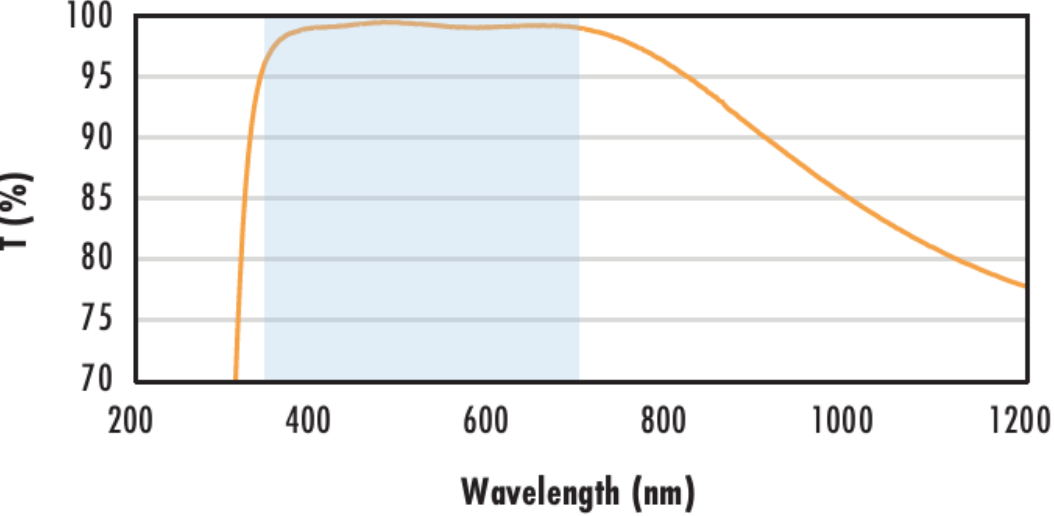
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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.

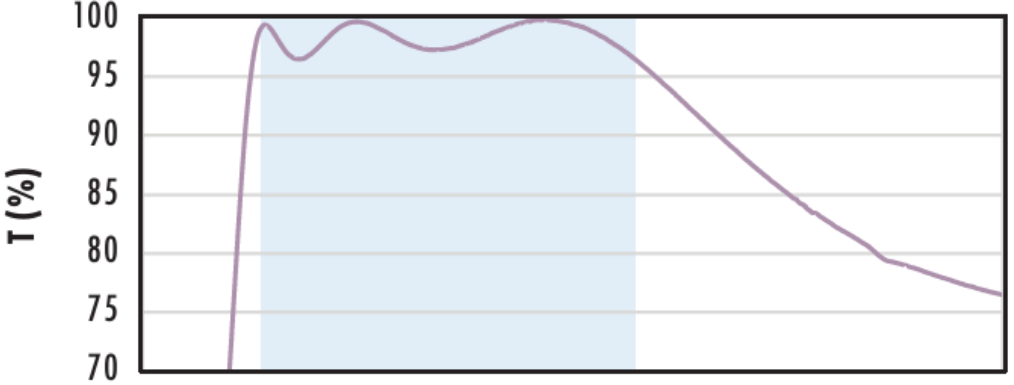
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

[Click Here to Download Data](#)

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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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>2004006008001000120014001600</div> <div>Wavelength (nm)</div>                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <div><div>N-BK7 with VIS 0° Coating</div><div>Typical Transmission</div><div><div><div>T (%)</div><div>100</div><div>95</div><div>90</div><div>85</div><div>80</div><div>75</div><div>70</div></div><div><div><div>200</div><div>400</div><div>600</div><div>800</div><div>1000</div><div>1200</div></div></div></div></div>                                                               | <p>Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) 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 0.4\%</math> @ 425 - 675nm</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>                                                                                                          |
| <div><div>N-BK7 with YAG-BBAR Coating</div><div>Typical Transmission</div><div><div><div>T (%)</div><div>100</div><div>95</div><div>90</div><div>85</div><div>80</div><div>75</div><div>70</div></div><div><div><div>200</div><div>400</div><div>600</div><div>800</div><div>1000</div><div>1200</div><div>1400</div><div>1600</div></div></div></div></div>                              | <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>           |
| <div><div>N-BK7 with NIR I Coating</div><div>Typical Transmission</div><div><div><div>T (%)</div><div>100</div><div>95</div><div>90</div><div>85</div><div>80</div><div>75</div><div>70</div></div><div><div><div>200</div><div>400</div><div>600</div><div>800</div><div>1000</div><div>1200</div><div>1400</div><div>1600</div></div></div></div></div>                                | <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>                                                                                                       |
| <div><div>N-BK7 with NIR II Coating</div><div>Typical Transmission</div><div><div><div>T (%)</div><div>100</div><div>95</div><div>90</div><div>85</div><div>80</div><div>75</div><div>70</div></div><div><div><div>200</div><div>400</div><div>600</div><div>800</div><div>1000</div><div>1200</div><div>1400</div><div>1600</div><div>1800</div><div>2000</div></div></div></div></div> | <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> |

