

TECHSPEC<sup>®</sup>

Plankonvexe Linse, 12 mm D. x 50 mm BW, NIR-I-beschichtet



Produkt **#38-345** **6 In Stock**

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+

€47<sup>.50</sup>

+ WARENKORB

| Mengenrabatte |                                 |
|---------------|---------------------------------|
| Stk. 1-9      | €47,50 stückpreis               |
| Stk. 10-24    | €42,50 stückpreis               |
| Stk. 25-49    | €38,00 stückpreis               |
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ⓘ Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails

Plano-Convex Lens

Typ:

Physikalische und mechanische Eigenschaften

|                      |                             |
|----------------------|-----------------------------|
| 12.00 +0.0/-0.025    | Durchmesser (mm):           |
| <1                   | Zentrierung (Bogenminuten): |
| 1.90 ±0.05           | Mittendicke CT (mm):        |
| 1.19                 | Randdicke ET (mm):          |
| 11                   | Freie Apertur CA (mm):      |
| Protective as needed | Fase:                       |

Optische Eigenschaften

|                                       |                                           |
|---------------------------------------|-------------------------------------------|
| 50.00 @ 587.6nm                       | Effektive Brennweite EFL (mm):            |
| 48.75                                 | Hintere Brennweite BFL (mm):              |
| NIR I (600-1050nm)                    | Beschichtung:                             |
| R <sub>avg</sub> ≤0.5% @ 600 - 1050nm | Beschichtungsspezifikation:               |
| N-BK7                                 | Substrat: <div></div>                     |
| 40-20                                 | Oberflächenqualität:                      |
| 1.5λ                                  | Power (P-V) @ 632,8 nm:                   |
| λ/4                                   | Unregelmäßigkeit (P-V) @ 632,8 nm:        |
| ±1                                    | Toleranz Brennweite (%):                  |
| 25.84                                 | Radius R <sub>1</sub> (mm):               |
| 4.17                                  | Blende:                                   |
| 0.12                                  | Numerische Apertur NA:                    |
| 600 - 1050                            | Wellenlängenbereich (nm):                 |
| 7 J/cm <sup>2</sup> @ 1064nm, 10ns    | Zerstörschwelle, laut Design: <div></div> |

Konformität mit Standards

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

Produktdetails

- AR-beschichtet für <0,5% Reflexion pro Oberfläche bei 600 - 1050 nm
  - Entwickelt für einen Einfallswinkel von 0°
  - Verschiedene Antireflexionsbeschichtungen erhältlich: [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR II](#), [VIS-EXT](#) und [YAG-BBAR](#) oder [unbeschichtet](#)

TECHSPEC® Plankonvexe Linsen (PCX) mit NIR-I-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 NIR-I-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 II](#), [VIS-EXT](#) 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:

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

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

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

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

[Click Here to Download Data](#)

|                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>2004006008001000120014001600</div> <div>Wavelength (nm)</div>                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <div><div>N-BK7 with VIS 0° Coating</div><div>Typical Transmission</div><div><div><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>200</div><div>400</div><div>600</div><div>800</div><div>1000</div><div>1200</div></div></div><div><div>T (%)</div><div>Wavelength (nm)</div></div></div></div>                                                             |  | <div>Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><div><math>R_{avg} \leq 0.4\%</math> @ 425 - 675nm</div></div> <div>Data outside this range is not guaranteed and is for reference only.</div> <div><a href="#">Click Here to Download Data</a></div>                                                                                                                      |
| <div><div>N-BK7 with YAG-BBAR Coating</div><div>Typical Transmission</div><div><div><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>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>T (%)</div><div>Wavelength (nm)</div></div></div></div>                             |  | <div>Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><div><math>R_{abs} \leq 0.25\%</math> @ 532nm</div><div><math>R_{abs} \leq 0.25\%</math> @ 1064nm</div><div><math>R_{avg} \leq 1.0\%</math> @ 500 - 1100nm</div></div> <div>Data outside this range is not guaranteed and is for reference only.</div> <div><a href="#">Click Here to Download Data</a></div>           |
| <div><div>N-BK7 with NIR I Coating</div><div>Typical Transmission</div><div><div><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>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>T (%)</div><div>Wavelength (nm)</div></div></div></div>                                |  | <div>Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><div><math>R_{avg} \leq 0.5\%</math> @ 600 - 1050nm</div></div> <div>Data outside this range is not guaranteed and is for reference only.</div> <div><a href="#">Click Here to Download Data</a></div>                                                                                                                   |
| <div><div>N-BK7 with NIR II Coating</div><div>Typical Transmission</div><div><div><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>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>T (%)</div><div>Wavelength (nm)</div></div></div></div> |  | <div>Typical transmission of a 3mm thick N-BK7 window with NIR II (750 - 1550nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><div><math>R_{abs} \leq 1.5\%</math> @ 750 - 800nm</div><div><math>R_{abs} \leq 1.0\%</math> @ 800 - 1550nm</div><div><math>R_{avg} \leq 0.7\%</math> @ 750 - 1550nm</div></div> <div>Data outside this range is not guaranteed and is for reference only.</div> <div><a href="#">Click Here to Download Data</a></div> |

Kundenspezifische Produkte

Edmund Optics bietet einen umfangreichen kundenspezifischen Fertigungsservice für Optik- und Bildverarbeitungskomponenten an, speziell hergestellt für Ihre Anwendungsanforderungen. Wir ermöglichen flexible Lösungen für Ihre

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## Kompatible Halterungen

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