

TECHSPEC<sup>®</sup> Plankonvexe Linse, 30 mm D. x 30 mm BW, YAG-BBAR-beschichtet



YAG-BBAR Coated Plano-Convex (PCX) Lenses



Produkt **#88-904** **7 In Stock**

[Andere Beschichtungen](#)

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1

+

€64<sup>.00</sup>

+ WARENKORB

| Mengenrabatte |                                 |
|---------------|---------------------------------|
| Stk. 1-9      | €64,00 stückpreis               |
| Stk. 10-24    | €58,00 stückpreis               |
| Stk. 25-49    | €51,00 stückpreis               |
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 Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails

Plano-Convex Lens

Typ:

Physikalische und mechanische Eigenschaften

|                      |                             |
|----------------------|-----------------------------|
| 30.00 +0.0/-0.025    | Durchmesser (mm):           |
| <1                   | Zentrierung (Bogenminuten): |
| 6.90 ±0.10           | Mittendicke CT (mm):        |
| 1.50                 | Randdicke ET (mm):          |
| 29                   | Freie Apertur CA (mm):      |
| Protective as needed | Fase:                       |

Optische Eigenschaften

|                                                                                                              |                                                        |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 30.00 @ 587.6nm                                                                                              | Effektive Brennweite EFL (mm):                         |
| 26.13                                                                                                        | Hintere Brennweite BFL (mm):                           |
| YAG-BBAR (500-1100nm)                                                                                        | Beschichtung:                                          |
| R <sub>abs</sub> <0.25% @ 532nm<br>R <sub>abs</sub> <0.25% @ 1064nm<br>R <sub>avg</sub> <1.0% @ 500 - 1100nm | Beschichtungsspezifikation:                            |
| N-SF11                                                                                                       | 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 (%):                               |
| 23.54                                                                                                        | Radius R <sub>1</sub> (mm):                            |
| 1                                                                                                            | Blende:                                                |
| 0.50                                                                                                         | Numerische Apertur NA:                                 |
| 532 - 1100                                                                                                   | Wellenlängenbereich (nm):                              |
| 5 J/cm² @ 532nm, 10ns                                                                                        | Zerstörschwelle, laut Design: <input type="checkbox"/> |

Konformität mit Standards

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

## Produktdetails

- Optimiert für R <0,25% bei 532 nm und 1064 nm
  - AR-beschichtet, dadurch <1,0% Reflexion pro Oberfläche im Bereich von 500 - 1100 nm
  - Für 0° Einfallswinkel ausgelegt
  - Antireflexionsbeschichtungen erhältlich: **MgF<sub>2</sub>**, **VIS 0°**, **VIS-NIR**, **NIR I**, **NIR II**, **VIS-EXT** oder **unbeschichtet**
- TECHSPEC® Plankonvexe Linsen (PCX) mit YAG-BBAR-Beschichtung haben eine positive Brennweite und sind ideal für die Fokussierung von Licht in abbildenden Anwendungen. Sie können gut in Verbindung mit Emittlern, Detektoren, Lasern und Faseroptiken eingesetzt werden. TECHSPEC® Plankonvexe Linsen (PCX) mit YAG-BBAR-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 **VIS-EXT**.

## Technische Informationen



| N-BK7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><h3>Uncoated N-BK7 Typical Transmission</h3><p>This graph shows the typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra. The Y-axis represents T (%) from 70 to 100, and the X-axis represents Wavelength (nm) from 200 to 2200. The transmission is high, starting at ~70% at 200 nm, rising to ~92% at 400 nm, and remaining above 90% up to 2200 nm.</p></div>                                                                                                                         | <p>Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                                                                                                                                                                                              |
| <div><h3>N-BK7 with MgF<sub>2</sub> Coating Typical Transmission</h3><p>This graph shows the typical transmission of a 3mm thick N-BK7 window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI. The Y-axis represents T (%) from 70 to 100, and the X-axis represents Wavelength (nm) from 200 to 2200. The transmission is high, starting at ~70% at 200 nm, rising to ~98% at 400 nm, and remaining above 90% up to 2200 nm. A blue shaded region indicates the coating design wavelength range from 400 to 700 nm.</p></div> | <p>Typical transmission of a 3mm thick N-BK7 window with MgF<sub>2</sub> (400-700nm) 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 1.75\% @ 400 - 700\text{nm}</math> (N-BK7)</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><h3>N-BK7 with VIS-EXT Coating Typical Transmission</h3><p>This graph shows the typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI. The Y-axis represents T (%) from 70 to 100, and the X-axis represents Wavelength (nm) from 200 to 1200. The transmission is high, starting at ~70% at 200 nm, rising to ~98% at 400 nm, and remaining above 90% up to 1200 nm. A blue shaded region indicates the coating design wavelength range from 350 to 700 nm.</p></div>                 | <p>Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) 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\% @ 350 - 700\text{nm}</math></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><h3>N-BK7 with VIS-NIR Coating Typical Transmission</h3><p>This graph shows the typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI. The Y-axis represents T (%) from 70 to 100, and the X-axis represents Wavelength (nm) from 200 to 1600. The transmission is high, starting at ~70% at 200 nm, rising to ~98% at 400 nm, and remaining above 90% up to 1600 nm. A blue shaded region indicates the coating design wavelength range from 400 to 1000 nm.</p></div>               | <p>Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) 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\% @ 880\text{nm}</math><br/><math>R_{avg} \leq 1.25\% @ 400 - 870\text{nm}</math><br/><math>R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}</math></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 VIS 0° Coating</b><br/><b>Typical Transmission</b></p>     | <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\% @ 425 - 675\text{nm}</math></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 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\% @ 532\text{nm}</math><br/><math>R_{abs} \leq 0.25\% @ 1064\text{nm}</math><br/><math>R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}</math></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\% @ 600 - 1050\text{nm}</math></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\% @ 750 - 800\text{nm}</math><br/><math>R_{abs} \leq 1.0\% @ 800 - 1550\text{nm}</math><br/><math>R_{avg} \leq 0.7\% @ 750 - 1550\text{nm}</math></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> |

## 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 Bedürfnisse – von der Prototypenphase bis zur Serienfertigung. Unsere erfahrenen IngenieurInnen freuen sich auf die Zusammenarbeit und unterstützen Sie bei jedem Projektschritt.

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## Kompatible Halterungen

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