

TECHSPEC<sup>®</sup> Plankonvexe Linse, 1,0 mm D. x 1,5 mm BW, VIS-NIR-beschichtet



Produkt **#65-291** KONTAKT

[Andere Beschichtungen](#)

-

1

+

€90<sup>.00</sup>

+ WARENKORB

| Mengenrabatte |                                 |
|---------------|---------------------------------|
| Stk. 1-9      | €90,00 stückpreis               |
| Stk. 10-24    | €80,50 stückpreis               |
| Stk. 25-49    | €72,50 stückpreis               |
| Need More?    | <a href="#">Angebotsanfrage</a> |

!

 Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails

Plano-Convex Lens

Typ:

Physikalische und mechanische Eigenschaften

|                      |                             |
|----------------------|-----------------------------|
| 1.00 +0.0/-0.025     | Durchmesser (mm):           |
| 30-45, typical       | Zentrierung (Bogenminuten): |
| 0.80 ±0.05           | Mittendicke CT (mm):        |
| 0.70                 | Randdicke ET (mm):          |
| 0.5                  | Freie Apertur CA (mm):      |
| Protective as needed | Fase:                       |

Optische Eigenschaften

|                                                                                                                    |                                                        |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 1.50 @ 587.6nm                                                                                                     | Effektive Brennweite EFL (mm):                         |
| 1.07                                                                                                               | Hintere Brennweite BFL (mm):                           |
| VIS-NIR (400-1000nm)                                                                                               | Beschichtung:                                          |
| R <sub>abs</sub> ≤0.25% @ 880nm<br>R <sub>avg</sub> ≤1.25% @ 400 - 870nm<br>R <sub>avg</sub> ≤1.25% @ 890 - 1000nm | Beschichtungsspezifikation:                            |
| <a href="#">N-LASF9</a>                                                                                            | Substrat: <input type="checkbox"/>                     |
| 20-10                                                                                                              | Oberflächenqualität:                                   |
| 10λ                                                                                                                | Power (P-V) @ 632,8 nm:                                |
| 2λ                                                                                                                 | Unregelmäßigkeit (P-V) @ 632,8 nm:                     |
| ±1                                                                                                                 | Toleranz Brennweite (%):                               |
| 1.28                                                                                                               | Radius R <sub>1</sub> (mm):                            |
| 1.5                                                                                                                | Blende:                                                |
| 0.33                                                                                                               | Numerische Apertur NA:                                 |
| 400 - 1000                                                                                                         | Wellenlängenbereich (nm):                              |
| 5 J/cm <sup>2</sup> @ 532nm, 10ns                                                                                  | Zerstörschwelle, laut Design: <input type="checkbox"/> |

Konformität mit Standards

|                          |                         |
|--------------------------|-------------------------|
| <a href="#">Konform</a>  | RoHS 2015:              |
| <a href="#">Anzeigen</a> | Konformitätszertifikat: |
| <a href="#">Konform</a>  | Reach 235:              |

## Produktdetails

- AR-beschichtet für <1,25% Reflexion pro Oberfläche bei 400 - 1000 nm
- <0,25% Reflexion bei 880 nm
- Entwickelt für einen Einfallswinkel von 0°
- Antireflexionsbeschichtungen erhältlich: [MgF<sub>2</sub>](#), [VIS 0°](#), [NIR I](#), [NIR II](#), [VIS-EXT](#) und [YAG-BBAR](#) oder [unbeschichtet](#)

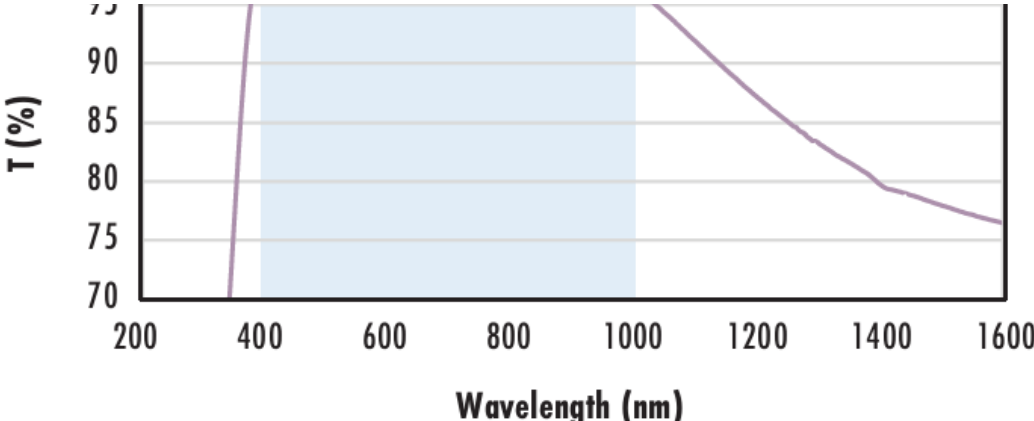
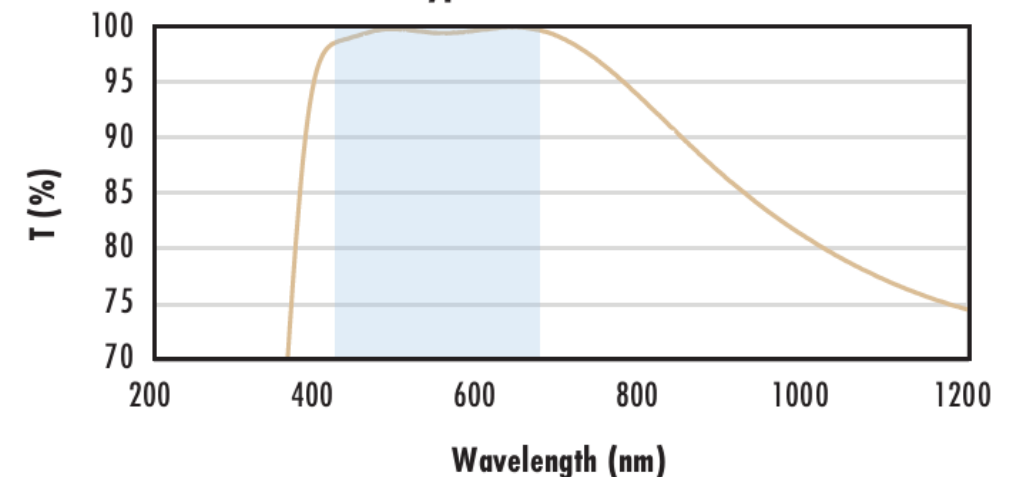
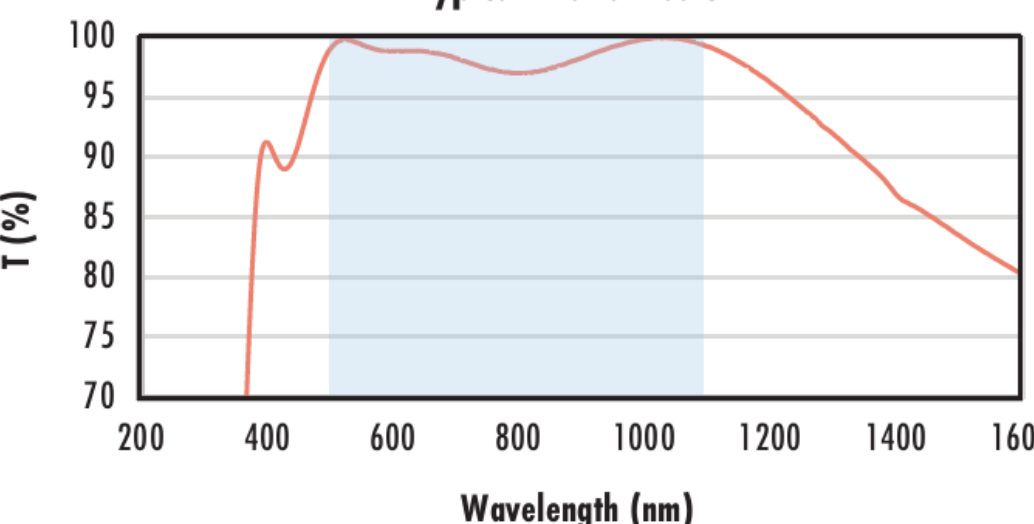
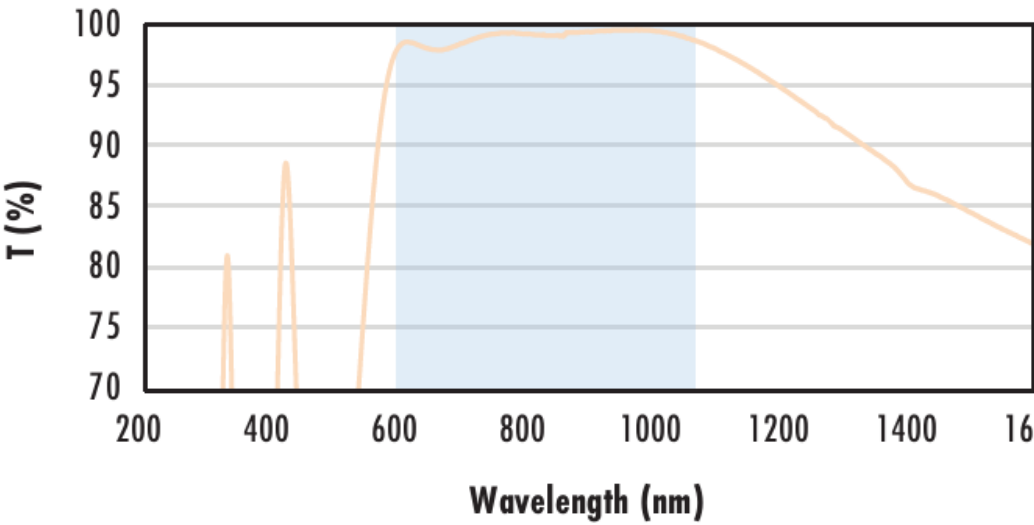
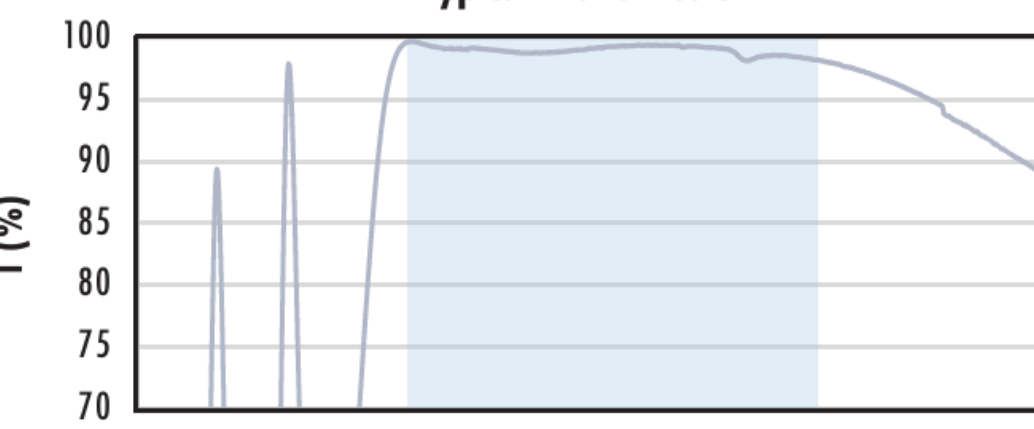
TECHSPEC® Plankonvexe Linsen (PCX) mit VIS-NIR-Beschichtung haben eine positive Brennweite und sind ideal für die Fokussierung von Licht in abbildenden Anwendungen. Sie können gut in Verbindung mit Emittlern, Detektoren, Lasern und Faseroptiken eingesetzt werden. Plankonvexe Linsen sind ideal für eine Vielzahl von optischen und photonischen Anwendungen, einschließlich biotechnologischer Instrumente wie DNA-Sequenzierer und Polymerase-Kettenreaktion (PCR)-Testplattformen. TECHSPEC® Plankonvexe Linsen (PCX) mit VIS-NIR-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°](#), [NIR I](#), [NIR II](#), [VIS-EXT](#) und [YAG-BBAR](#).

Diese beschichteten Linsen können in einer Vielzahl von Optik- und Photonikanwendungen eingesetzt werden, z. B. in Biotechnik-Geräten wie DNA-Sequenzierern und PCR-Testgeräten.

## Technische Informationen



| <div>Uncoated N-BK7 Typical Transmission</div> <table><tr><th>Wavelength (nm)</th><th>T (%)</th></tr><tr><td>200</td><td>70</td></tr><tr><td>400</td><td>92</td></tr><tr><td>600</td><td>92</td></tr><tr><td>800</td><td>92</td></tr><tr><td>1000</td><td>92</td></tr><tr><td>1200</td><td>92</td></tr><tr><td>1400</td><td>92</td></tr><tr><td>1600</td><td>92</td></tr><tr><td>1800</td><td>92</td></tr><tr><td>2000</td><td>92</td></tr><tr><td>2200</td><td>90</td></tr></table>                     |       | Wavelength (nm) | T (%) | 200 | 70 | 400 | 92 | 600 | 92 | 800 | 92 | 1000 | 92 | 1200 | 92 | 1400                                                                                                                                                                                                                                                                                                                                                                                                                              | 92 | 1600 | 92 | 1800 | 92 | 2000 | 92 | 2200 | 90 | <div>Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra.</div> <div><a href="#">Click Here to Download Data</a></div>                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------|-------|-----|----|-----|----|-----|----|-----|----|------|----|------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|----|------|----|------|----|------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wavelength (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | T (%) |                 |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 70    |                 |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 92    |                 |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 92    |                 |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 92    |                 |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 92    |                 |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 92    |                 |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 92    |                 |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 92    |                 |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 92    |                 |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 92    |                 |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 90    |                 |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <div>N-BK7 with MgF<sub>2</sub> Coating Typical Transmission</div> <table><tr><th>Wavelength (nm)</th><th>T (%)</th></tr><tr><td>200</td><td>70</td></tr><tr><td>400</td><td>98</td></tr><tr><td>600</td><td>98</td></tr><tr><td>800</td><td>98</td></tr><tr><td>1000</td><td>98</td></tr><tr><td>1200</td><td>98</td></tr><tr><td>1400</td><td>98</td></tr><tr><td>1600</td><td>98</td></tr><tr><td>1800</td><td>98</td></tr><tr><td>2000</td><td>98</td></tr><tr><td>2200</td><td>90</td></tr></table> |       | Wavelength (nm) | T (%) | 200 | 70 | 400 | 98 | 600 | 98 | 800 | 98 | 1000 | 98 | 1200 | 98 | 1400                                                                                                                                                                                                                                                                                                                                                                                                                              | 98 | 1600 | 98 | 1800 | 98 | 2000 | 98 | 2200 | 90 | <div>Typical transmission of a 3mm thick N-BK7 window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><math>R_{avg} \leq 1.75\% @ 400 - 700\text{nm}</math> (N-BK7)</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> |
| Wavelength (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | T (%) |                 |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 70    |                 |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 98    |                 |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 98    |                 |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 98    |                 |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| 2200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 90    |                 |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <div>N-BK7 with VIS-EXT Coating Typical Transmission</div> <table><tr><th>Wavelength (nm)</th><th>T (%)</th></tr><tr><td>200</td><td>70</td></tr><tr><td>400</td><td>98</td></tr><tr><td>600</td><td>98</td></tr><tr><td>800</td><td>98</td></tr><tr><td>1000</td><td>98</td></tr><tr><td>1200</td><td>78</td></tr></table>                                                                                                                                                                              |       | Wavelength (nm) | T (%) | 200 | 70 | 400 | 98 | 600 | 98 | 800 | 98 | 1000 | 98 | 1200 | 78 | <div>Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><math>R_{avg} \leq 0.5\% @ 350 - 700\text{nm}</math></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> |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Wavelength (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | T (%) |                 |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <div>N-BK7 with VIS-NIR Coating Typical Transmission</div> <table><tr><th>Wavelength (nm)</th><th>T (%)</th></tr><tr><td>200</td><td>70</td></tr><tr><td>400</td><td>98</td></tr><tr><td>600</td><td>98</td></tr><tr><td>800</td><td>98</td></tr><tr><td>1000</td><td>98</td></tr><tr><td>1200</td><td>78</td></tr></table>                                                                                                                                                                              |       | Wavelength (nm) | T (%) | 200 | 70 | 400 | 98 | 600 | 98 | 800 | 98 | 1000 | 98 | 1200 | 78 | <div>Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.</div>                                                                                                                                                                                                                                                                                                                          |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Wavelength (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | T (%) |                 |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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|                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                               | <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 0.25\% @ 880nm</math><br/><math>R_{avg} \leq 1.25\% @ 400 - 870nm</math><br/><math>R_{avg} \leq 1.25\% @ 890 - 1000nm</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 - 675nm</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\% @ 532nm</math><br/><math>R_{abs} \leq 0.25\% @ 1064nm</math><br/><math>R_{avg} \leq 1.0\% @ 500 - 1100nm</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 - 1050nm</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 - 800nm</math><br/><math>R_{abs} \leq 1.0\% @ 800 - 1550nm</math><br/><math>R_{avg} \leq 0.7\% @ 750 - 1550nm</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> |



Beschichtungskurven

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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