

TECHSPEC<sup>®</sup> Plankonvexe Linse aus UV-Quarzglas, 12 mm D. x 30 mm BW, NIR-I-beschichtet



UV Fused Silica Plano-Convex (PCX) Lenses



Produkt **#18-045** **6 In Stock**

-

1

+

€155<sup>.00</sup>

+ WARENKORB

| Mengenrabatte |                                 |
|---------------|---------------------------------|
| Stk. 1-5      | €155,00 stückpreis              |
| Stk. 6-25     | €124,00 stückpreis              |
| Stk. 26-49    | €117,00 stückpreis              |
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ⓘ Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails

Plano-Convex Lens

Typ:

Physikalische und mechanische Eigenschaften

|                      |                             |
|----------------------|-----------------------------|
| 12.00 -0.025         | Durchmesser (mm):           |
| <1                   | Zentrierung (Bogenminuten): |
| 3.55 ±0.05           | Mittendicke CT (mm):        |
| 2.17                 | Randdicke ET (mm):          |
| 11                   | Freie Apertur CA (mm):      |
| Protective as needed | Fase:                       |

|                                       |                                    |
|---------------------------------------|------------------------------------|
| Optische Eigenschaften                |                                    |
| 30.00 @ 587.6nm                       | Effektive Brennweite EFL (mm):     |
| 27.56                                 | Hintere Brennweite BFL (mm):       |
| NIR I (600-1050nm)                    | Beschichtung:                      |
| R <sub>avg</sub> ≤0.5% @ 600 - 1050nm | Beschichtungsspezifikation:        |
| Fused Silica (Corning 7980)           | Substrat: □                        |
| 40-20                                 | Oberflächenqualität:               |
| 3 Rings                               | Power (P-V) @ 632,8 nm:            |
| 0.5 Rings                             | Unregelmäßigkeit (P-V) @ 632,8 nm: |
| ±1                                    | Toleranz Brennweite (%):           |
| 13.75                                 | Radius R <sub>1</sub> (mm):        |
| 2.5                                   | Blende:                            |
| 0.20                                  | Numerische Apertur NA:             |
| 600 - 1050                            | Wellenlängenbereich (nm):          |
| 7 J/cm <sup>2</sup> @ 1064nm, 10ns    | Zerstörschwelle, Referenz: □       |

|                           |                         |
|---------------------------|-------------------------|
| 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

- AR-Beschichtung bietet <0,5% Reflexion pro Oberfläche für 600-1050 nm
- Präzise Quarzglassubstrate
- Verschiedene Beschichtungen verfügbar: [Unbeschichtet](#), [MgF<sub>2</sub>](#), [UV-AR](#), [UV-VIS](#), [VIS-NIR](#), [VIS 0°](#), [YAG-BBAR](#), [NIR II](#) und [VIS-EXT](#)

TECHSPEC® Plankonvexe Linsen (PCX) aus UV-Quarzglas zeichnen sich durch Präzisionsspezifikationen und eine Vielzahl von Beschichtungsmöglichkeiten auf einem breitbandigen Substrat aus. Quarzglas wird üblicherweise in Anwendungen von Ultraviolett (UV) bis Nahinfrarot (NIR) verwendet. Aufgrund seines niedrigen Brechungsindex, seines niedrigen Wärmeausdehnungskoeffizienten und seiner geringen Einschlüsse ist es ideal für Laseranwendungen und raue Umgebungsbedingungen. TECHSPEC Plankonvexe Linsen (PCX) aus UV-Quarzglas mit branchenweit führenden Spezifikationen für Durchmesser und Zentrierung eignen sich ideal für die Integration in anspruchsvolle Bildgebungs- und Messanwendungen.

Technische Informationen

FUSED SILICA

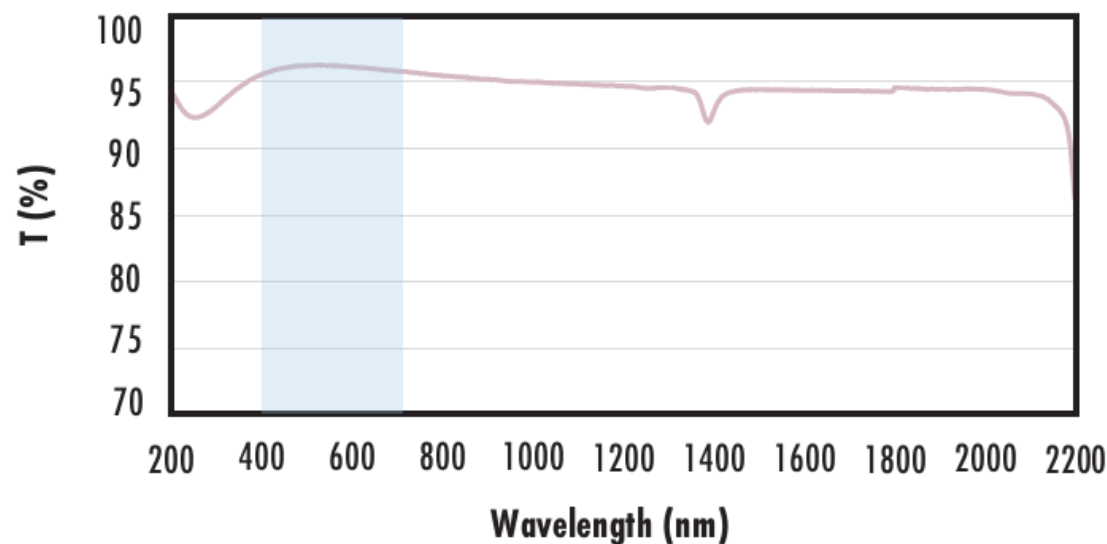
Uncoated Fused Silica  
Typical Transmission



Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra.

[Click Here to Download Data](#)

Fused Silica with MgF<sub>2</sub> Coating  
Typical Transmission



Typical transmission of a 3mm thick fused silica window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.

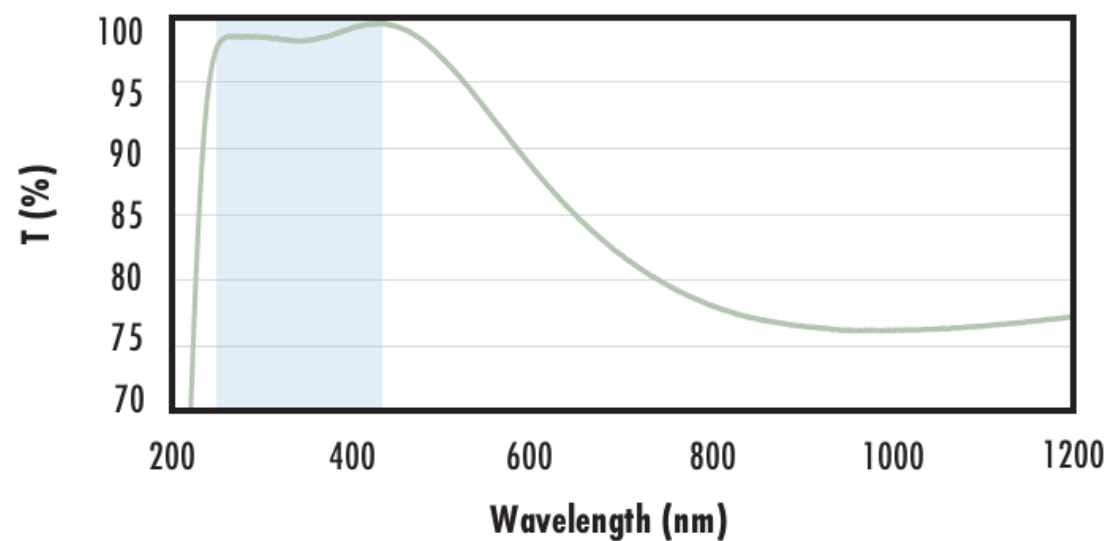
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

[Click Here to Download Data](#)

Fused Silica with UV-AR Coating  
Typical Transmission



Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI.

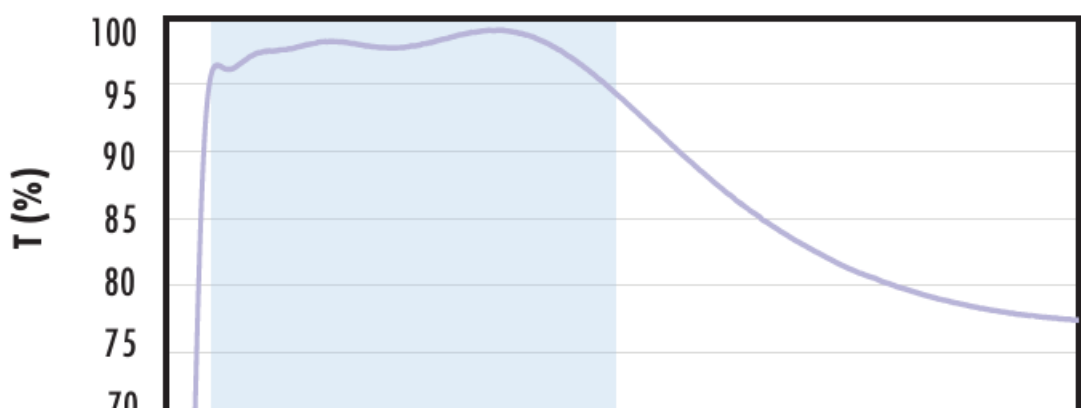
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{abs} \leq 1.0\% @ 250 - 425\text{nm}$   
 $R_{avg} \leq 0.75\% @ 250 - 425\text{nm}$   
 $R_{avg} \leq 0.5\% @ 370 - 420\text{nm}$

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

[Click Here to Download Data](#)

Fused Silica with UV-VIS Coating  
Typical Transmission



Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.

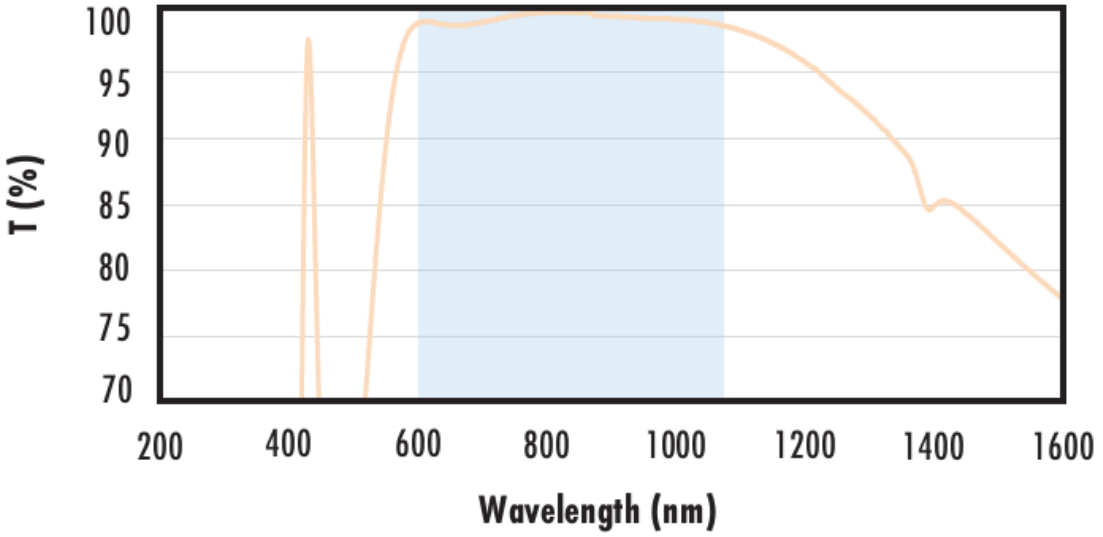
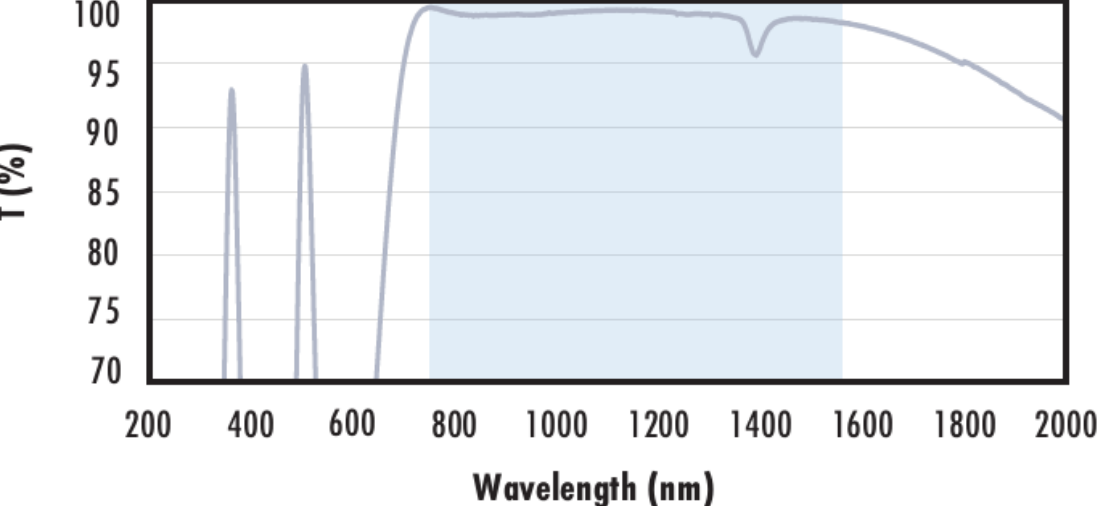
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{abs} \leq 1.0\% @ 350 - 450\text{nm}$   
 $R_{avg} \leq 1.5\% @ 250 - 700\text{nm}$

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

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|                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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|                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p data-bbox="569 252 1079 359"><b>Fused Silica with VIS-EXT Coating</b><br/><b>Typical Transmission</b></p>       | <p data-bbox="1341 436 1839 486">Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.</p> <p data-bbox="1331 498 1850 549">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 560 1703 584"><math>R_{avg} \leq 0.5\%</math> @ 350 - 700nm</p> <p data-bbox="1341 596 1839 647">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1472 658 1709 682"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                    |
| <p data-bbox="573 928 1075 1035"><b>Fused Silica with VIS-NIR Coating</b><br/><b>Typical Transmission</b></p>    | <p data-bbox="1341 1074 1839 1124">Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p data-bbox="1331 1136 1850 1187">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1493 1199 1688 1222"><math>R_{abs} \leq 0.25\%</math> @ 880nm</p> <p data-bbox="1472 1222 1709 1246"><math>R_{avg} \leq 1.25\%</math> @ 400 - 870nm</p> <p data-bbox="1465 1246 1715 1270"><math>R_{avg} \leq 1.25\%</math> @ 890 - 1000nm</p> <p data-bbox="1341 1308 1839 1359">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1472 1371 1709 1394"><a href="#">Click Here to Download Data</a></p> |
| <p data-bbox="573 1602 1075 1709"><b>Fused Silica with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>    | <p data-bbox="1331 1780 1850 1831">Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p data-bbox="1331 1843 1850 1893">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 1905 1703 1929"><math>R_{avg} \leq 0.4\%</math> @ 425 - 675nm</p> <p data-bbox="1341 1941 1839 1991">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1472 2003 1709 2027"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                           |
| <p data-bbox="552 2273 1096 2380"><b>Fused Silica with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1341 2427 1839 2478">Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p data-bbox="1331 2490 1850 2540">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1493 2552 1688 2576"><math>R_{abs} \leq 0.25\%</math> @ 532nm</p> <p data-bbox="1493 2576 1688 2599"><math>R_{abs} \leq 0.25\%</math> @ 1064nm</p> <p data-bbox="1472 2599 1709 2623"><math>R_{avg} \leq 1.0\%</math> @ 500 - 1100nm</p> <p data-bbox="1341 2635 1839 2686">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1472 2697 1709 2721"><a href="#">Click Here to Download Data</a></p>      |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div data-bbox="260 121 1291 753"><h3>Fused Silica with NIR I Coating<br/>Typical Transmission</h3></div>    | <div data-bbox="1325 299 1858 552"><p>Typical transmission of a 3mm thick fused silica 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 data-bbox="260 804 1291 1406"><h3>Fused Silica with NIR II Coating<br/>Typical Transmission</h3></div> | <div data-bbox="1325 940 1858 1264"><p>Typical transmission of a 3mm thick fused silica 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></div> |