

TECHSPEC<sup>®</sup>

# Plankonkave Linse aus UV-Quarzglas, 9 mm D. x -18 mm eff. Brennweite, UV-AR-beschichtet



UV Fused Silica Plano-Concave (PCV) Lenses



Produkt **#46-312** **20+ In Stock**

☐ [Andere Beschichtungen](#)

-

1

+

€150<sup>.00</sup>

+ WARENKORB

| Mengenrabatte |                                 |
|---------------|---------------------------------|
| Stk. 1-5      | €150,00 stückpreis              |
| Stk. 6-25     | €120,00 stückpreis              |
| Stk. 26-49    | €113,00 stückpreis              |
| Need More?    | <a href="#">Angebotsanfrage</a> |

Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails

Typ:

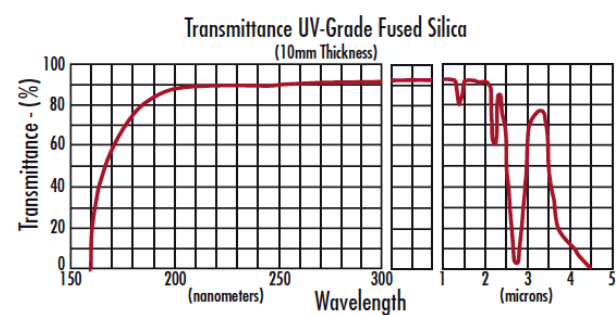
|                                                     |  |
|-----------------------------------------------------|--|
| Plano-Concave Lens                                  |  |
| Max. Flat Annulus is 0.3mm                          |  |
| Hinweis:                                            |  |
| Physikalische und mechanische Eigenschaften         |  |
| Durchmesser (mm):                                   |  |
| 9.00 +0.0/-0.025                                    |  |
| Mittendicke CT (mm):                                |  |
| 2.00                                                |  |
| Toleranz Mittendicke (mm):                          |  |
| ±0.05                                               |  |
| Zentrierung (Bogenminuten):                         |  |
| <1                                                  |  |
| Freie Apertur CA (mm):                              |  |
| 8.1                                                 |  |
| Randdicke ET (mm):                                  |  |
| 3.15                                                |  |
| Optische Eigenschaften                              |  |
| Effektive Brennweite EFL (mm):                      |  |
| -18.00                                              |  |
| Substrat: <input type="checkbox"/>                  |  |
| Fused Silica (Corning 7980)                         |  |
| Blende:                                             |  |
| 2.00                                                |  |
| Numerische Apertur NA:                              |  |
| 0.25                                                |  |
| Beschichtung:                                       |  |
| UV-AR (250-425nm)                                   |  |
| Wellenlängenbereich (nm):                           |  |
| 250 - 425                                           |  |
| Hintere Brennweite BFL (mm):                        |  |
| -19.37                                              |  |
| Beschichtungsspezifikation:                         |  |
| R <sub>abs</sub> ≤1.0% @ 250 - 425nm                |  |
| R <sub>avg</sub> ≤0.75% @ 250 - 425nm               |  |
| R <sub>avg</sub> ≤0.5% @ 370 - 420nm                |  |
| Designwellenlänge Brennweite (nm):                  |  |
| 587.6                                               |  |
| Toleranz Brennweite (%):                            |  |
| ±1                                                  |  |
| Radius R <sub>1</sub> (mm):                         |  |
| -8.25                                               |  |
| Oberflächenqualität:                                |  |
| 40-20                                               |  |
| Zerstörschwelle, Referenz: <input type="checkbox"/> |  |
| 3 J/cm <sup>2</sup> @ 355nm, 10ns                   |  |
| Power (P-V) @ 632,8 nm:                             |  |
| 1.5λ                                                |  |
| Unregelmäßigkeit (P-V) @ 632,8 nm:                  |  |
| λ/4                                                 |  |

|                           |  |
|---------------------------|--|
| Konformität mit Standards |  |
| RoHS 2015:                |  |
| Konform                   |  |
| Reach 223:                |  |
| Konform                   |  |
| Konformitätszertifikat:   |  |
| Anzeigen                  |  |

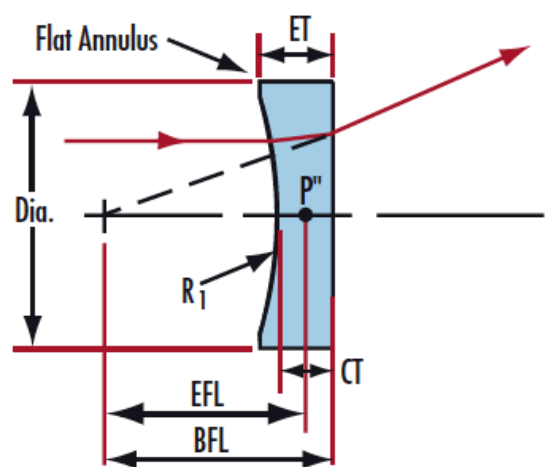
## Produktdetails

- Negative Brennweiten zur Strahlaufweitung oder Lichtprojektion
  - Wellenlängenbereich von 200 - 2200 nm
  - UV-AR-Beschichtungen verfügbar
- Diese hochqualitativen optischen Elemente werden mit CNC-Maschinen nach dem neuesten Stand der Technik gefertigt. Die UV-Linsen werden aus synthetischem Quarzglas hergestellt. Zusätzlich zur exzellenten Transmission und hohen Temperaturbeständigkeit, bieten die Linsen eine besonders hohe chemische Reinheit. Diese Linsen sind die ideale Wahl für viele Laseranwendungen und bildgebende Anwendungen, besonders im UV-Bereich. Die breitbandige Antireflexbeschichtung ermöglicht eine höhere Transmission im UV-Bereich.

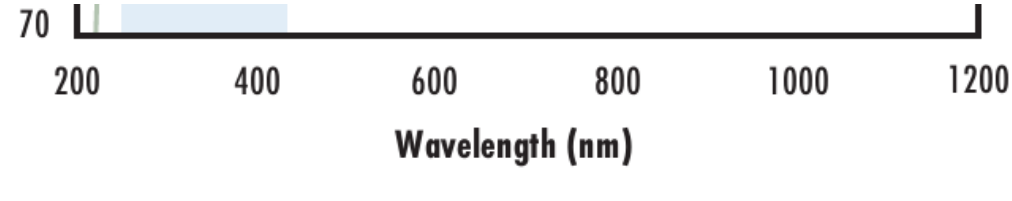
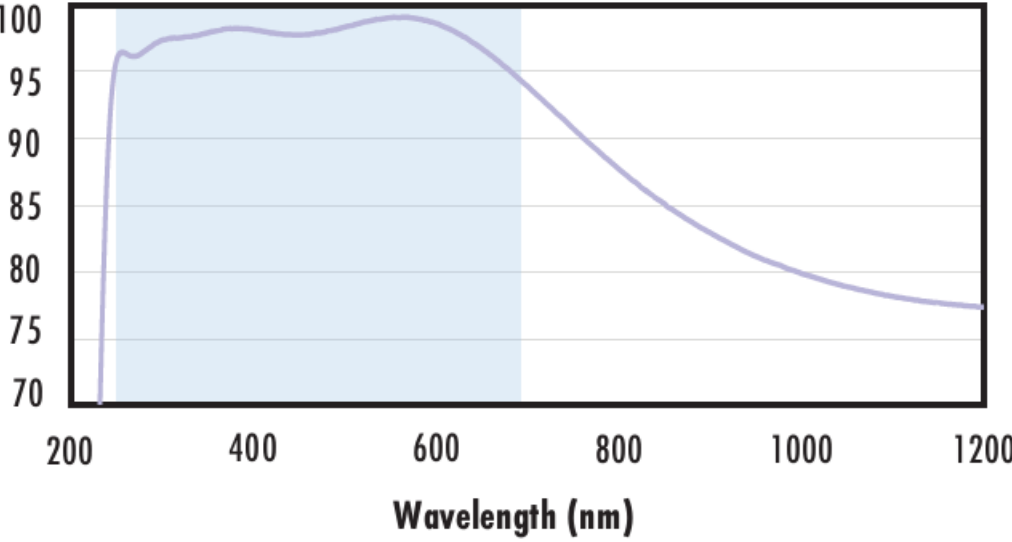
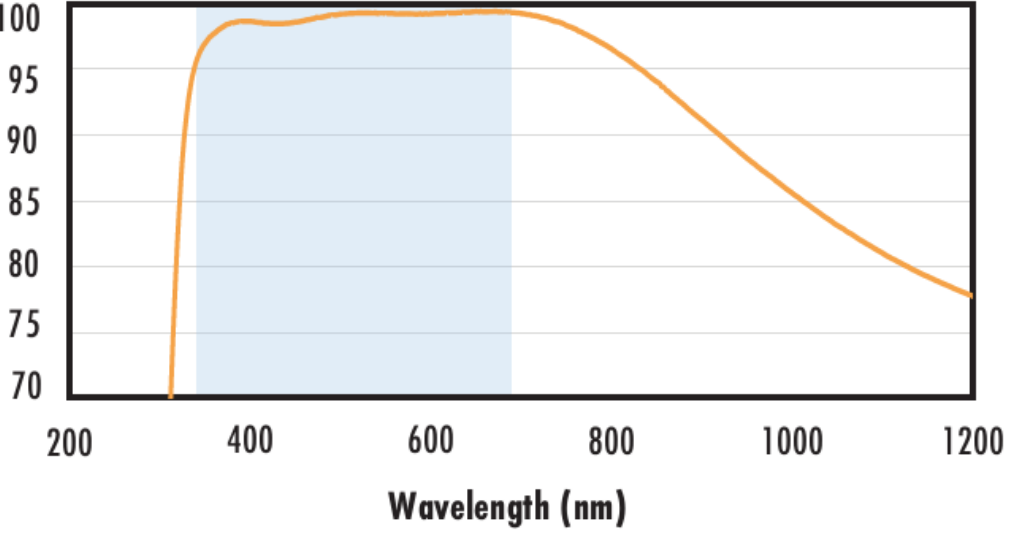
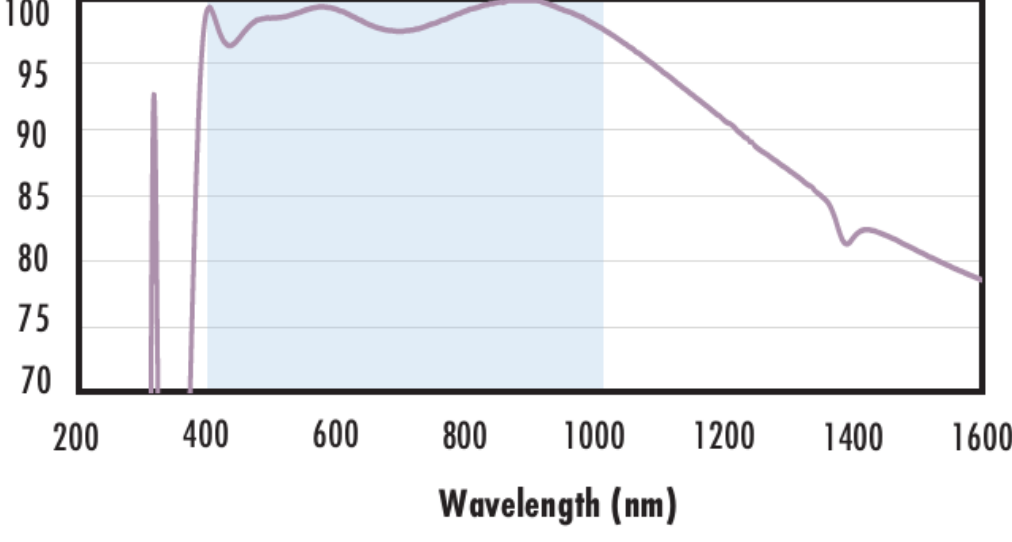
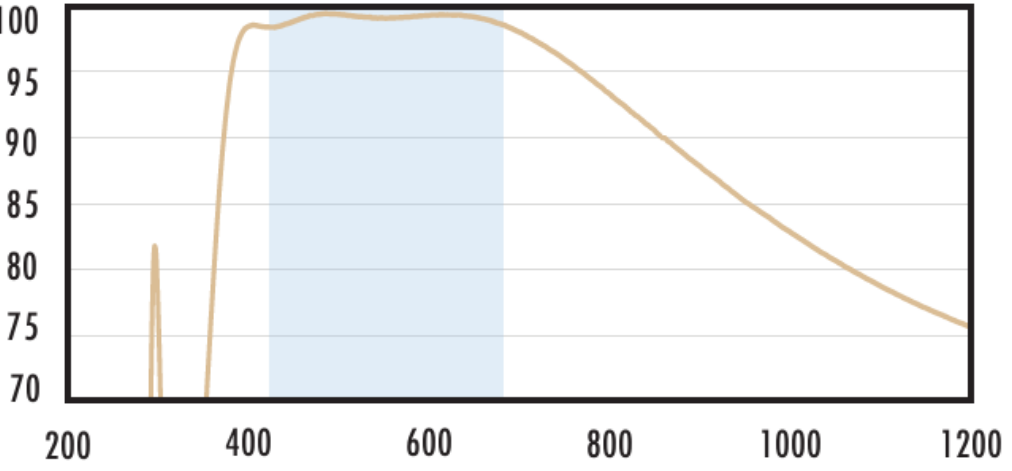
## Technische Informationen



UV FS Transmission Curve



| FUSED SILICA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Uncoated Fused Silica<br/>Typical Transmission</b></p> <p>The graph shows the typical transmission of a 3mm thick, uncoated fused silica window. The y-axis is Transmittance T (%) from 70 to 100. The x-axis is Wavelength (nm) from 200 to 2200. The curve is relatively flat, staying above 90% transmittance across the entire range, with a slight dip around 1400 nm.</p>                                                                                                                     | <p>Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                                                                                                                                                                                                |
| <p><b>Fused Silica with MgF<sub>2</sub> Coating<br/>Typical Transmission</b></p> <p>The graph shows the typical transmission of a 3mm thick fused silica window with a MgF<sub>2</sub> coating. The y-axis is Transmittance T (%) from 70 to 100. The x-axis is Wavelength (nm) from 200 to 2200. A blue shaded region from 400 to 700 nm indicates the coating design wavelength range. The transmission is high, peaking around 97% in the blue region and dipping slightly around 1400 nm.</p>         | <p>Typical transmission of a 3mm thick fused silica 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>                                                                                                   |
| <p><b>Fused Silica with UV-AR Coating<br/>Typical Transmission</b></p> <p>The graph shows the typical transmission of a 3mm thick fused silica window with a UV-AR coating. The y-axis is Transmittance T (%) from 75 to 100. The x-axis is Wavelength (nm) from 200 to 2200. A blue shaded region from 250 to 425 nm indicates the coating design wavelength range. The transmission is very high in the blue region, dropping significantly after 425 nm, reaching a minimum around 75% at 1400 nm.</p> | <p>Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) 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 1.0\% @ 250 - 425\text{nm}</math><br/> <math>R_{avg} \leq 0.75\% @ 250 - 425\text{nm}</math><br/> <math>R_{avg} \leq 0.5\% @ 370 - 420\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 data-bbox="573 278 1083 385"><b>Fused Silica with UV-VIS Coating</b><br/><b>Typical Transmission</b></p>       | <p data-bbox="1329 439 1854 489">Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.</p> <p data-bbox="1329 501 1854 552">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1476 563 1707 614"><math>R_{abs} \leq 1.0\% \text{ @ } 350 - 450\text{nm}</math><math>R_{avg} \leq 1.5\% \text{ @ } 250 - 700\text{nm}</math></div> <p data-bbox="1329 649 1854 700">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 712 1707 736"><a href="#">Click Here to Download Data</a></p>                                                                        |
| <p data-bbox="567 958 1079 1065"><b>Fused Silica with VIS-EXT Coating</b><br/><b>Typical Transmission</b></p>   | <p data-bbox="1329 1142 1854 1193">Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.</p> <p data-bbox="1329 1205 1854 1255">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1476 1267 1707 1291"><math>R_{avg} \leq 0.5\% \text{ @ } 350 - 700\text{nm}</math></div> <p data-bbox="1329 1302 1854 1353">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 1365 1707 1389"><a href="#">Click Here to Download Data</a></p>                                                                                                                          |
| <p data-bbox="571 1638 1083 1745"><b>Fused Silica with VIS-NIR Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1329 1780 1854 1831">Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p data-bbox="1329 1843 1854 1893">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1465 1905 1717 1979"><math>R_{abs} \leq 0.25\% \text{ @ } 880\text{nm}</math><math>R_{avg} \leq 1.25\% \text{ @ } 400 - 870\text{nm}</math><math>R_{avg} \leq 1.25\% \text{ @ } 890 - 1000\text{nm}</math></div> <p data-bbox="1329 2015 1854 2065">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 2077 1707 2101"><a href="#">Click Here to Download Data</a></p> |
| <p data-bbox="569 2309 1073 2415"><b>Fused Silica with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>   | <p data-bbox="1329 2487 1854 2537">Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p data-bbox="1329 2549 1854 2599">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1476 2611 1707 2635"><math>R_{avg} \leq 0.4\% \text{ @ } 425 - 675\text{nm}</math></div> <p data-bbox="1329 2647 1854 2697">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 2709 1707 2733"><a href="#">Click Here to Download Data</a></p>                                                                                                                           |

