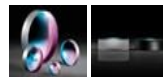


**TECHSPEC®**

**Plankonkave Linse aus UV-Quarzglas, 12 mm D. x -50 mm eff. Brennweite, unbeschichtet**



UV Fused Silica Plano-Concave (PCV) Lenses



Produkt **#48-049** **KONTAKT**

[Andere Beschichtungen](#)

1  €132<sup>00</sup>

**+ WARENKORB**

Mengenrabatte	
Stk. 1-5	€132,00 stückpreis
Stk. 6-25	€105,00 stückpreis
Stk. 26-49	€98,50 stückpreis
Need More?	<a href="#">Angebotsanfrage</a>

ⓘ Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

**Produktdetails**

Plano-Concave Lens

Typ:

Hinweis:

Max. Flat Annulus is 0.3mm

## Physikalische und mechanische Eigenschaften

12.00 +0.0/-0.025 **Durchmesser (mm):**

2.00 **Mittendicke CT (mm):**

±0.05 **Toleranz Mittendicke (mm):**

<1 **Zentrierung (Bogenminuten):**

11 **Freie Apertur CA (mm):**

2.72 **Randdicke ET (mm):**

## Optische Eigenschaften

-50.00 **Effektive Brennweite EFL (mm):**

**Substrat:**   
**Fused Silica** (Coming 7980)

4.17 **Blende:**

0.12 **Numerische Apertur NA:**

Uncoated **Beschichtung:**

200 - 2200 **Wellenlängenbereich (nm):**

-51.37 **Hintere Brennweite BFL (mm):**

587.6 **Designwellenlänge Brennweite (nm):**

±1 **Toleranz Brennweite (%):**

-22.92 **Radius R<sub>1</sub> (mm):**

40-20 **Oberflächenqualität:**

1.5λ **Power (P-V) @ 632,8 nm:**

λ/4 **Unregelmäßigkeit (P-V) @ 632,8 nm:**

## Konformität mit Standards

**Konform** **RoHS 2015:**

**Konform** **Reach 224:**

**Anzeigen** **Konformitätszertifikat:**

## 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

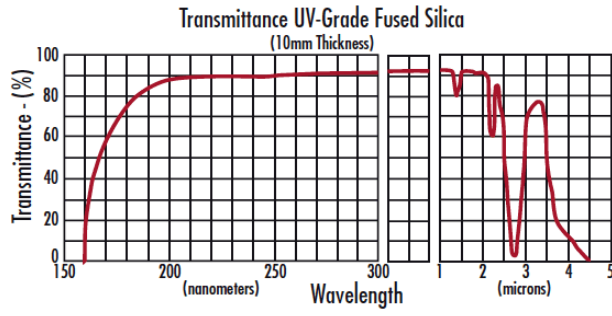
Erfahren Sie mehr über unsere [kundenspezifischen Fertigungsmöglichkeiten](#) oder senden Sie [hier](#) eine Anfrage.

## Produktdetails

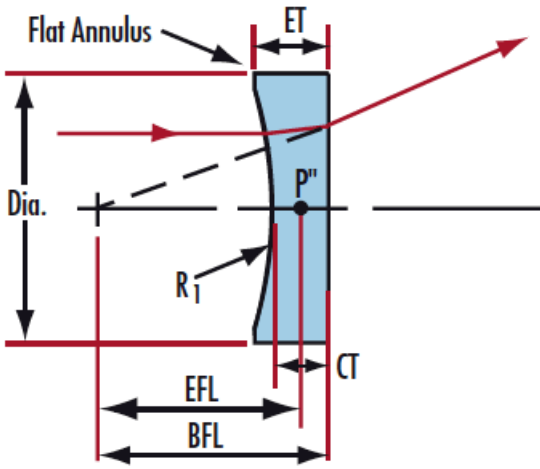
- Negative Brennweiten zur Strahlauflerung oder Lichtprojektion
- Wellenlängenbereich von 200 - 2200 nm
- UV-AR-Beschichtungen verfügbar

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.

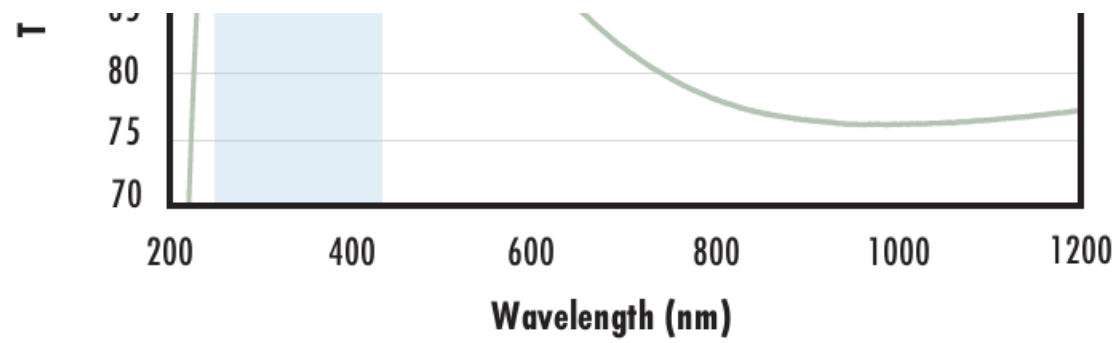
# Technische Informationen



UV FS Transmission Curve

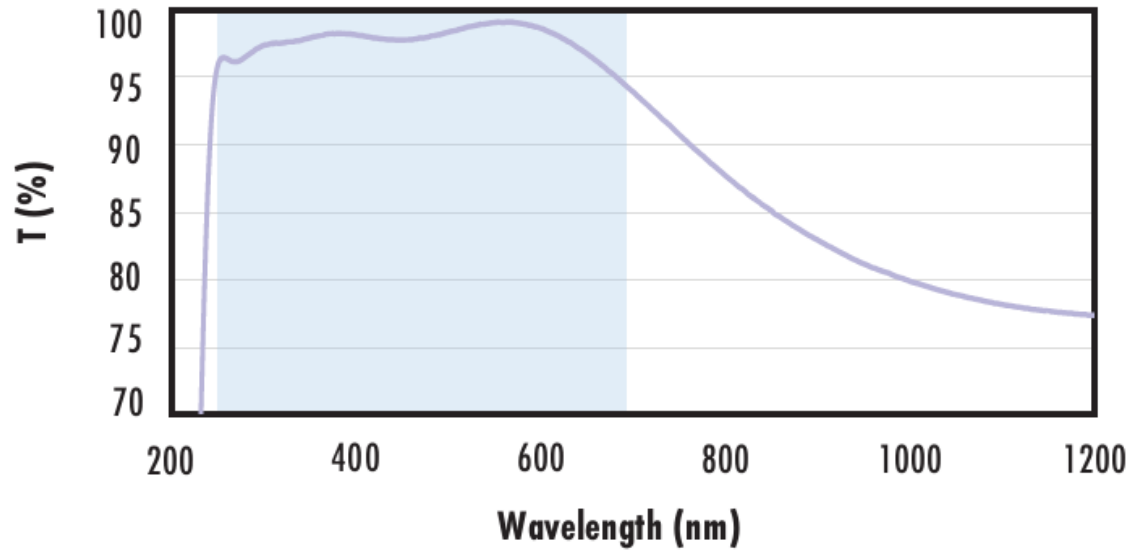


FUSED SILICA	
<h3>Uncoated Fused Silica Typical Transmission</h3> <p>The graph shows the typical transmission of a 3mm thick, uncoated fused silica window. The y-axis is Transmittance T (%) from 70 to 100. The x-axis is Wavelength (nm) from 200 to 2200. The transmission is high, starting at ~92% at 200nm, rising to ~94% by 400nm, and remaining stable until 2000nm, where it drops to ~90%.</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>
<h3>Fused Silica with MgF<sub>2</sub> Coating Typical Transmission</h3> <p>The graph shows the typical transmission of a 3mm thick fused silica window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI. The y-axis is Transmittance T (%) from 70 to 100. The x-axis is Wavelength (nm) from 200 to 2200. A blue shaded region highlights the coating design range from 400nm to 700nm. Transmission is ~94% at 200nm, peaks at ~97% at 500nm, and remains high until 2000nm.</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>
<h3>Fused Silica with UV-AR Coating Typical Transmission</h3> <p>The graph shows the typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI. The y-axis is Transmittance (%) from 85 to 100. The x-axis is Wavelength (nm) from 200 to 2200. A blue shaded region highlights the coating design range from 250nm to 425nm. Transmission is ~85% at 200nm, rises to ~100% at 250nm, and remains high until 425nm.</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></p> <p><math>R_{refl} &lt; 0.75\% @ 250 - 425\text{nm}</math></p>



$R_{avg} \leq 0.7\% @ 250 - 720nm$   
 $R_{avg} \leq 0.5\% @ 370 - 420nm$   
 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.

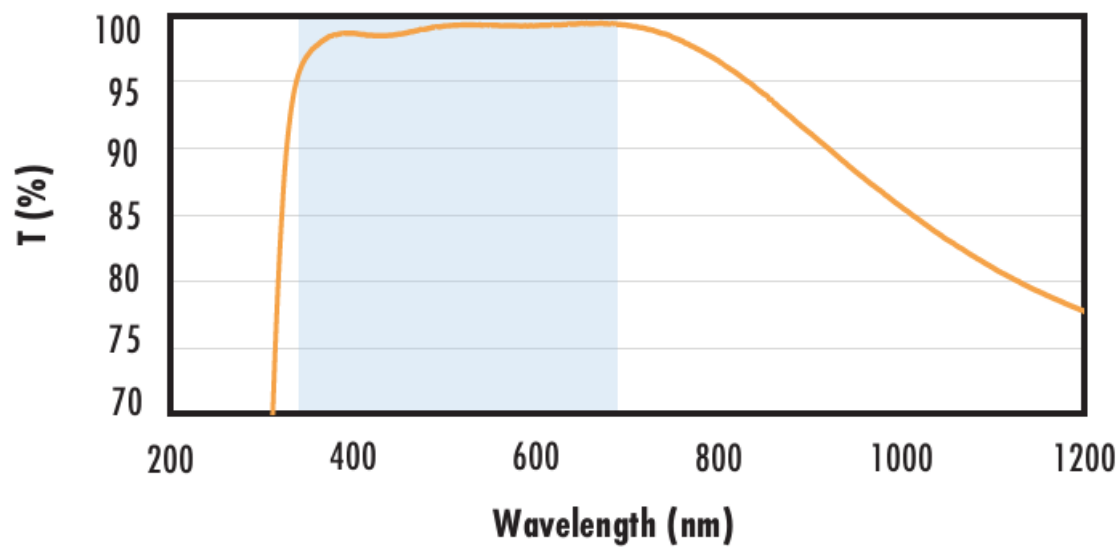
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

[Click Here to Download Data](#)

### Fused Silica with VIS-EXT Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.

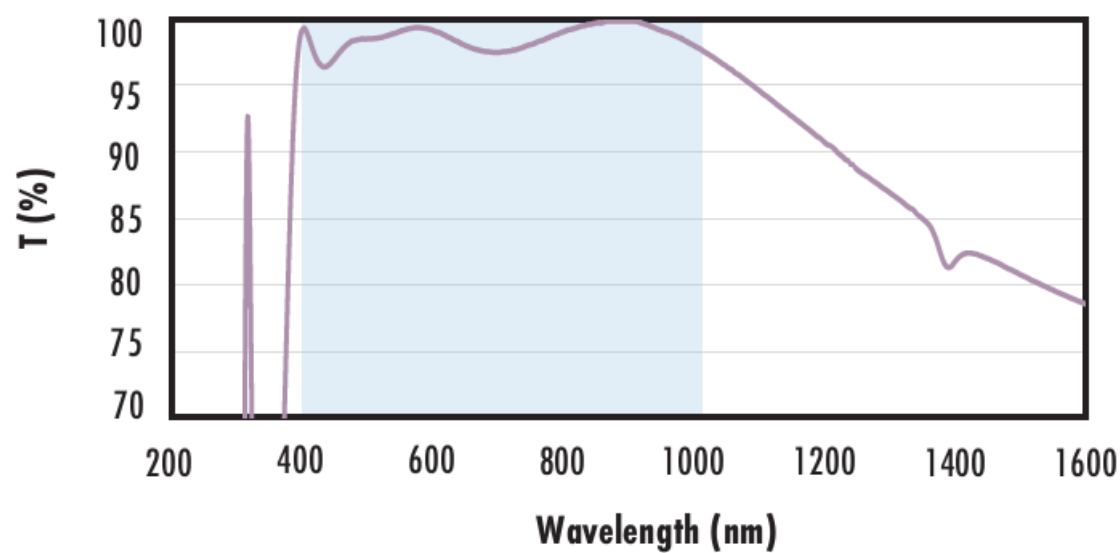
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} \leq 0.5\% @ 350 - 700nm$

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

[Click Here to Download Data](#)

### Fused Silica with VIS-NIR Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.

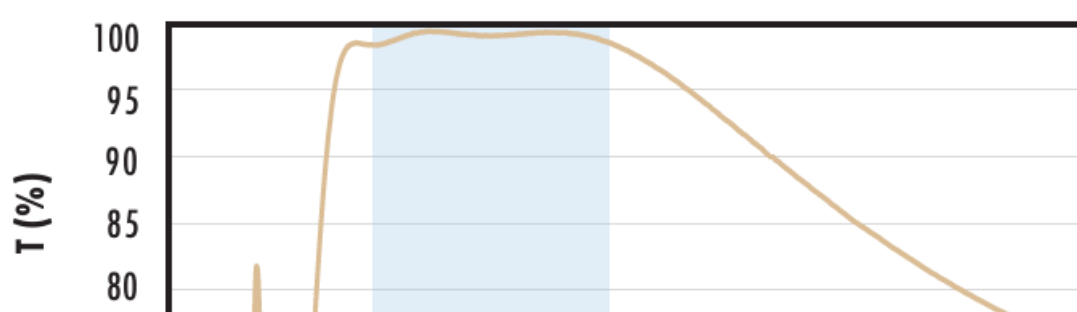
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{abs} \leq 0.25\% @ 880nm$   
 $R_{avg} \leq 1.25\% @ 400 - 870nm$   
 $R_{avg} \leq 1.25\% @ 890 - 1000nm$

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

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### Fused Silica with VIS 0° Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.

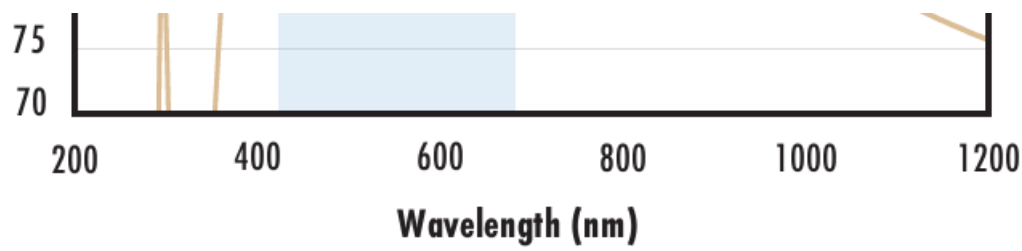
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} \leq 0.4\% @ 425 - 675nm$

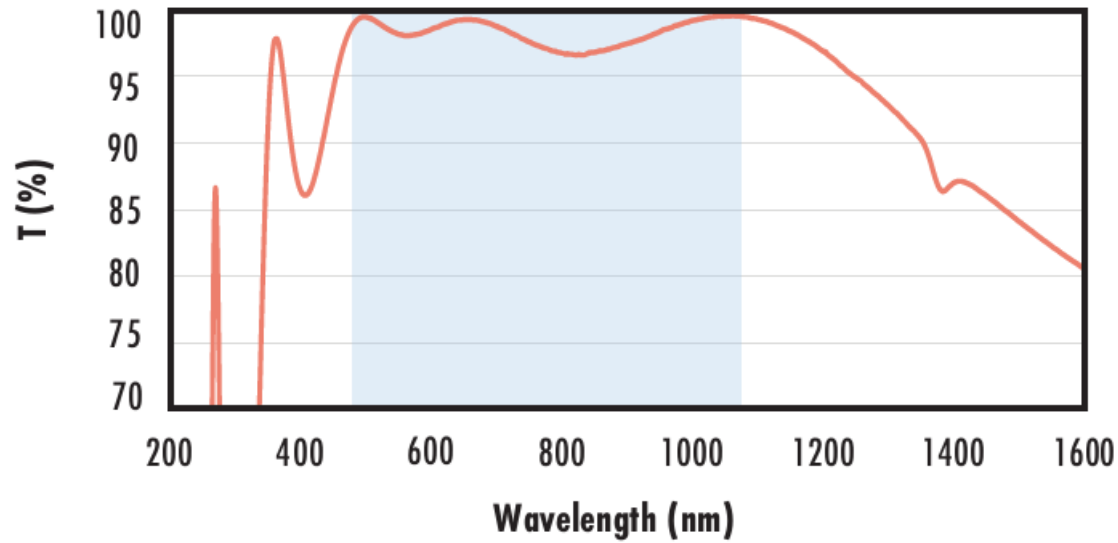
Data outside this range is not guaranteed and is for reference only.

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### Fused Silica with YAG-BBAR Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.

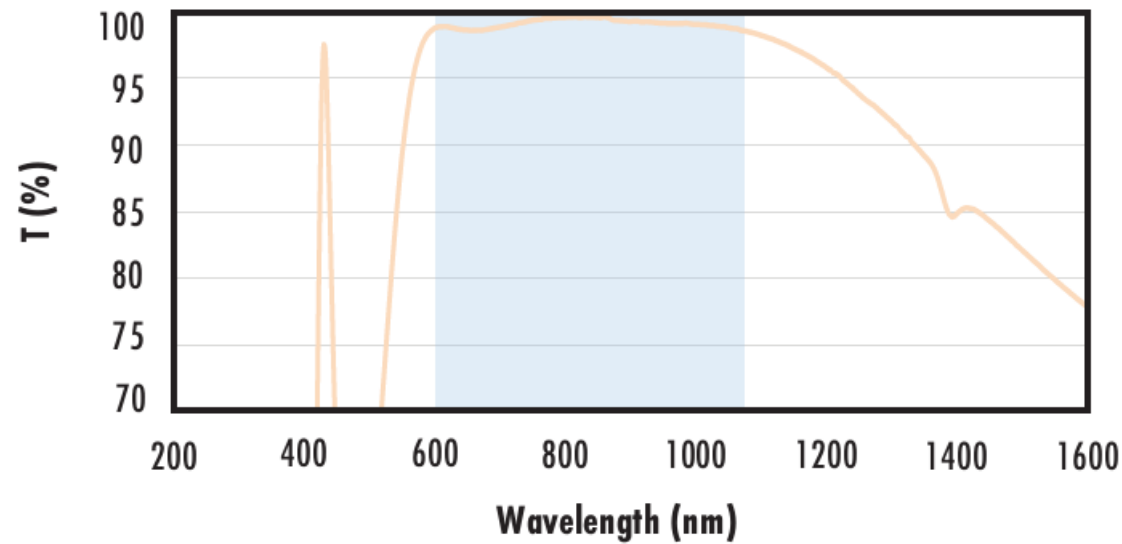
The blue shaded region indicates the coating design wavelength range, with the following specification:

$$\begin{aligned} R_{abs} &\leq 0.25\% @ 532\text{nm} \\ R_{abs} &\leq 0.25\% @ 1064\text{nm} \\ R_{avg} &\leq 1.0\% @ 500 - 1100\text{nm} \end{aligned}$$

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

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### Fused Silica with NIR I Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI.

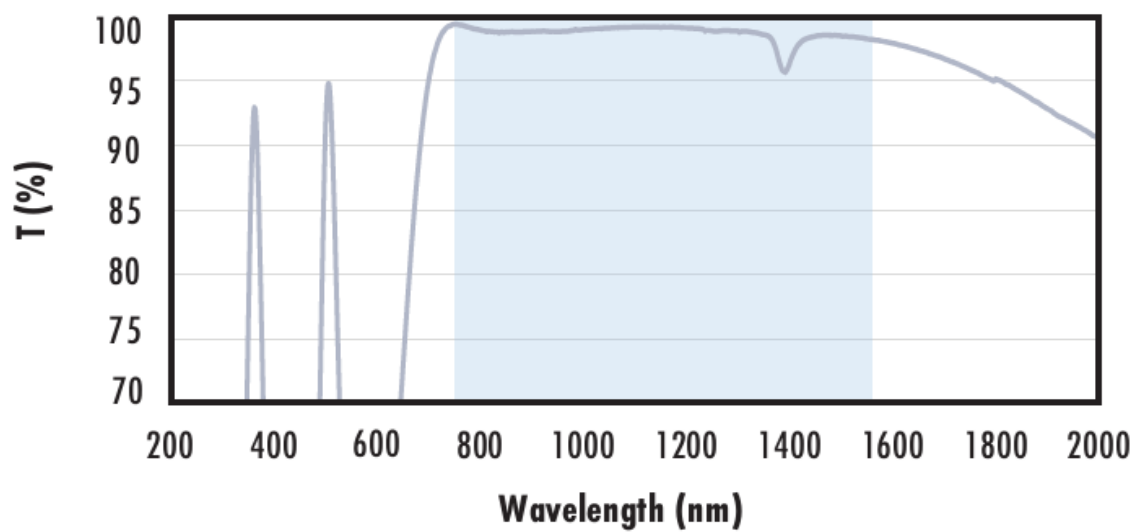
The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} \leq 0.5\% @ 600 - 1050\text{nm}$$

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

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### Fused Silica with NIR II Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with NIR II (750 - 1550nm) coating at 0° AOI.

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

$$\begin{aligned} R_{abs} &\leq 1.5\% @ 750 - 800\text{nm} \\ R_{abs} &\leq 1.0\% @ 800 - 1550\text{nm} \\ R_{avg} &\leq 0.7\% @ 750 - 1550\text{nm} \end{aligned}$$

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

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Kompatible Halterungen