

TECHSPEC<sup>®</sup>  $\lambda$ /4-Quarzglasfenster, 25 mm Durchm., 1 mm Dicke, NIR-I-beschichtet



TECHSPEC<sup>®</sup>  $\lambda$ /4 UVFused Silica Windows

Produkt **#72-362** **4 In Stock**

-

1

+

€154<sup>.00</sup>

+ WARENKORB

| Mengenrabatte |                                 |
|---------------|---------------------------------|
| Stk. 1-5      | €154,00 stückpreis              |
| Stk. 6-25     | €122,00 stückpreis              |
| Stk. 26-49    | €115,00 stückpreis              |
| Need More?    | <a href="#">Angebotsanfrage</a> |

 Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails

Protective Window

Typ:

Physikalische und mechanische Eigenschaften

22.50

Freie Apertur CA (mm):

Durchmesser (mm):

|                      |                              |
|----------------------|------------------------------|
| 25.00 +0.00/-0.10    |                              |
|                      | Dicke (mm):                  |
| 1.00 ±0.10           |                              |
|                      | Parallelität (Bogenminuten): |
| <1                   |                              |
|                      | Fase:                        |
| Protective as needed |                              |
|                      | Freie Apertur (%):           |
| 90                   |                              |
|                      | Kanten:                      |
| Fine Ground          |                              |
|                      | Poisson-Zahl:                |
| 0.16                 |                              |
|                      | Elastizitätsmodul (GPa):     |
| 73                   |                              |
|                      | Knoop-Härte (kg/mm²):        |
| 522.00               |                              |

Optische Eigenschaften

|                                       |                                                     |
|---------------------------------------|-----------------------------------------------------|
|                                       | Beschichtung:                                       |
| NIR I (600-1050nm)                    |                                                     |
|                                       | Substrat: <input type="checkbox"/>                  |
| Fused Silica (Corning 7980)           |                                                     |
|                                       | Brechungsindex (n <sub>d</sub> ):                   |
| 1.458                                 |                                                     |
|                                       | Oberflächenqualität:                                |
| 40-20                                 |                                                     |
|                                       | Transmittierte Wellenfront, P-V:                    |
| λ/4                                   |                                                     |
|                                       | Abbe-Zahl (v <sub>d</sub> ):                        |
| 67.8                                  |                                                     |
|                                       | Beschichtungsspezifikation:                         |
| R <sub>avg</sub> ≤0.5% @ 600 - 1050nm |                                                     |
|                                       | Wellenlängenbereich (nm):                           |
| 600 - 1050                            |                                                     |
|                                       | Zerstörschwelle, Referenz: <input type="checkbox"/> |
| 7 J/cm² @ 1064nm, 10ns                |                                                     |

Materialeigenschaften

|                       |                                                                |
|-----------------------|----------------------------------------------------------------|
|                       | Dichte (g/cm³):                                                |
| 2.20                  |                                                                |
|                       | Thermischer Ausdehnungskoeffizient CTE (10 <sup>-6</sup> /°C): |
| 0.52 (+5 to +35°C)    |                                                                |
| 0.57 (0 to +200°C)    |                                                                |
| 0.48 (-100 to +200°C) |                                                                |

Konformität mit Standards

|          |                         |
|----------|-------------------------|
|          | RoHS 2015:              |
| Konform  |                         |
|          | Konformitätszertifikat: |
| Anzeigen |                         |
|          | REACH 241:              |
| Konform  |                         |

## 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:

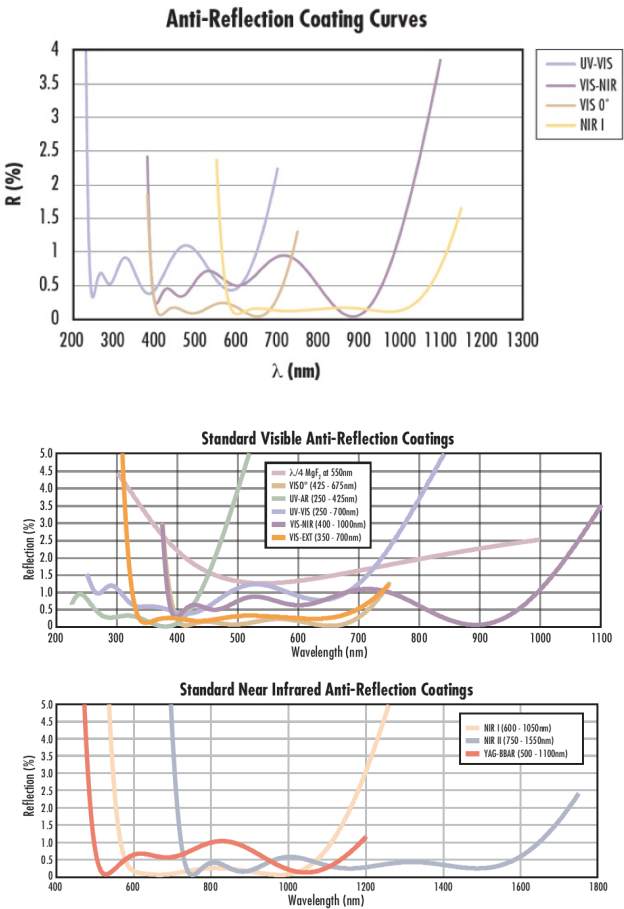
- Kundenspezifische Abmessungen, Materialien und mehr
  - Hochpräzise Oberflächenqualität und -ebenheit
  - Enge Toleranzen und komplexe Formen
  - Skalierbare Produktion – vom Prototypen zur Serie
- Erfahren Sie mehr über unsere [kundenspezifischen Fertigungsmöglichkeiten](#) oder senden Sie [hier](#) eine Anfrage.

## Produktdetails

- Verfügbar unbeschichtet sowie BBAR-beschichtet für UV, VIS und NIR
- Ideal für Bildverarbeitungsanwendungen
- Rund oder rechteckig mit Größen von 5 bis 200 mm
- **1λ-** oder **λ/10**-Fenster aus UV-Quarzglas sind ebenfalls verfügbar

TECHSPEC® λ/4-Fenster aus UV-Quarzglas haben eine Oberflächenqualität von 40-20 und einen transmittierten Wellenfrontfehler von λ/4. Dies macht sie ideal für Bildverarbeitungsanwendungen. Die Fenster bestehen aus UV-Quarzglassubstraten und bieten eine hohe Transmission vom ultravioletten über den sichtbaren bis zum nahinfraroten Bereich. Es sind breitbandige Antireflexionsbeschichtungen (BBAR) verfügbar, um Reflexionsverluste zu minimieren und die Transmission zu erhöhen. TECHSPEC® λ/4-Fenster aus UV-Quarzglas werden in optischen Bildgebungsanwendungen, in Laseranwendungen mit geringer oder mittlerer Leistung und als Schutzfenster für Anwendungen, die eine hohe UV-Transmission erfordern, eingesetzt.

Technische Informationen



FUSED SILICA

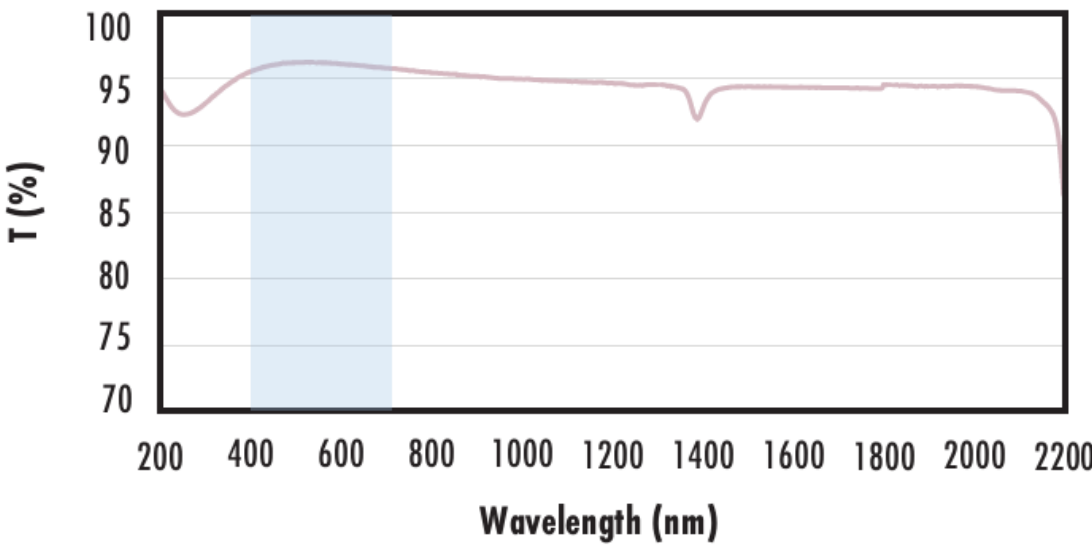
Uncoated Fused Silica  
Typical Transmission



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

[Click Here to Download Data](#)

Fused Silica with  $MgF_2$  Coating  
Typical Transmission



Typical transmission of a 3mm thick fused silica window with  $MgF_2$  (400-700nm) coating at 0° AOI.

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

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

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

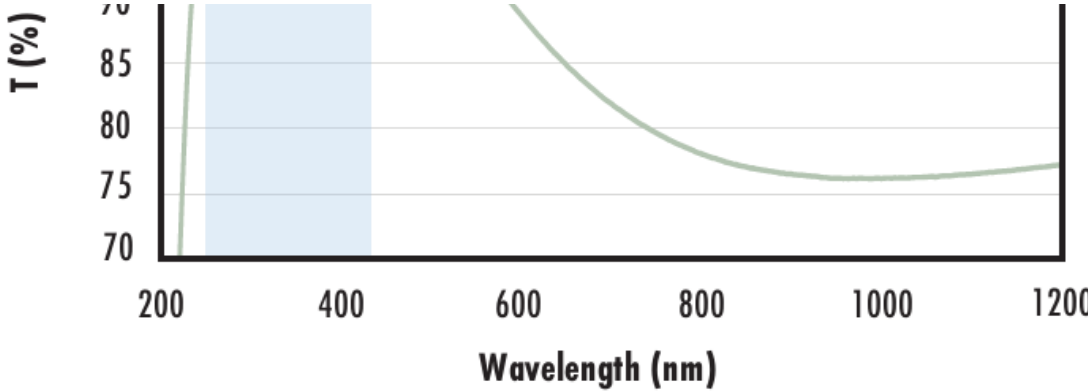
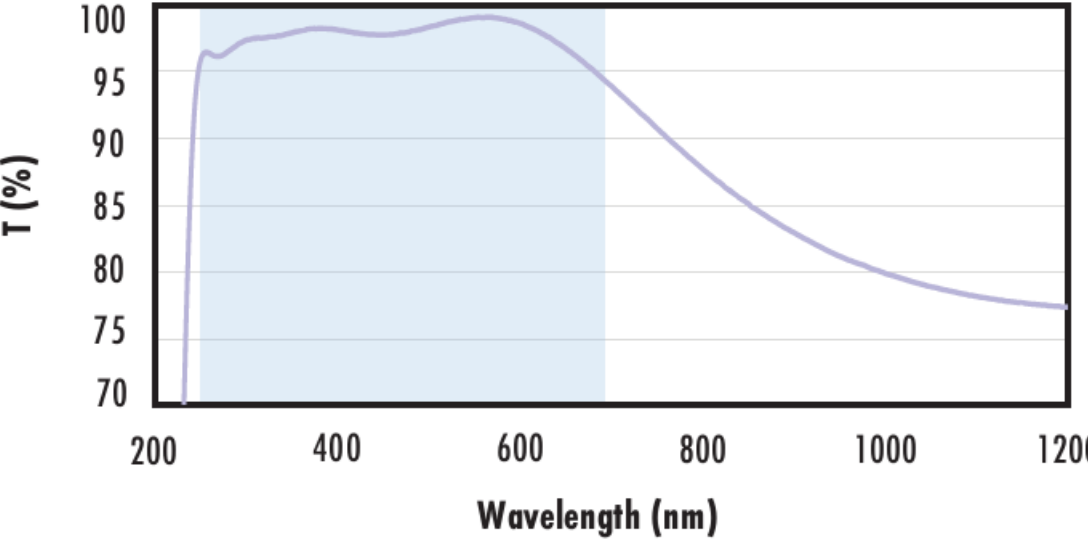
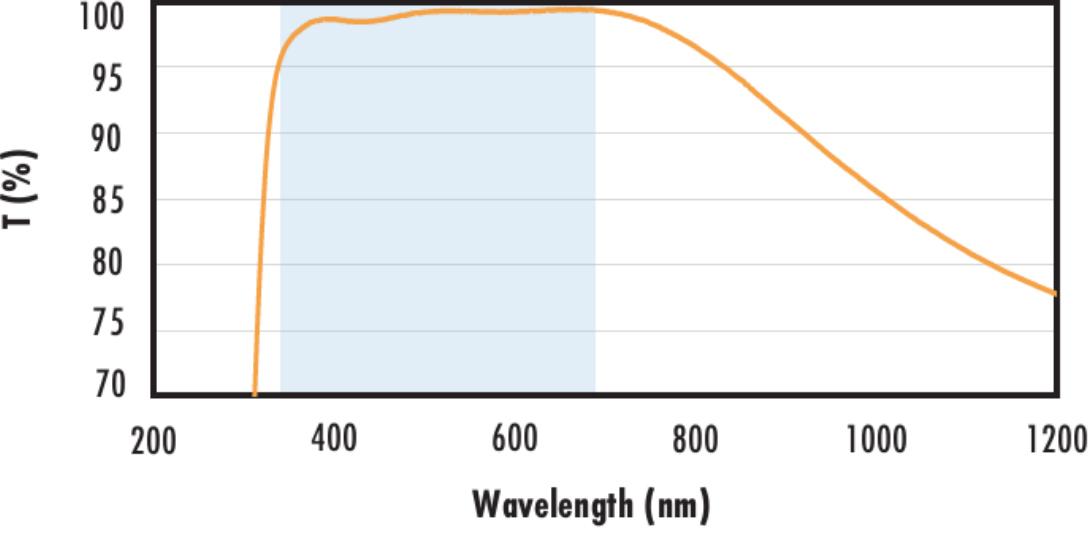
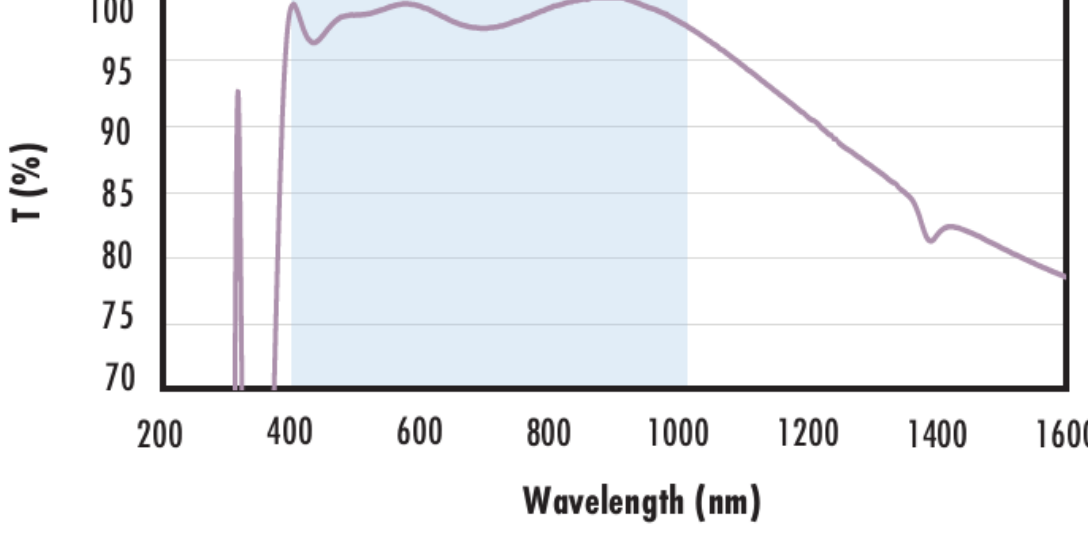
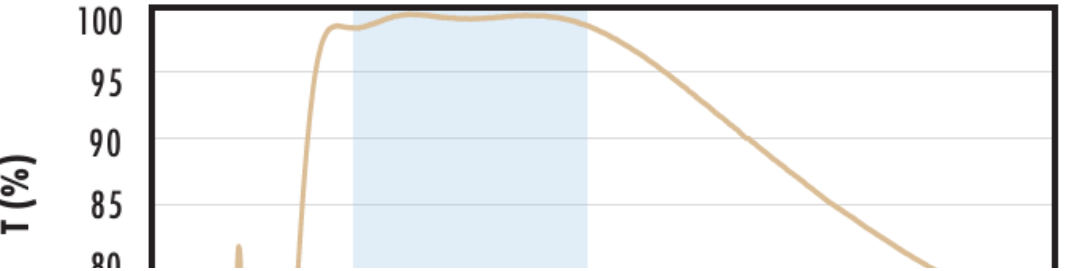
[Click Here to Download Data](#)

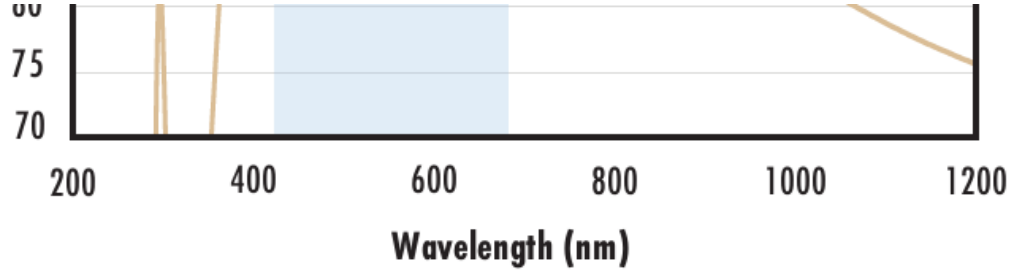
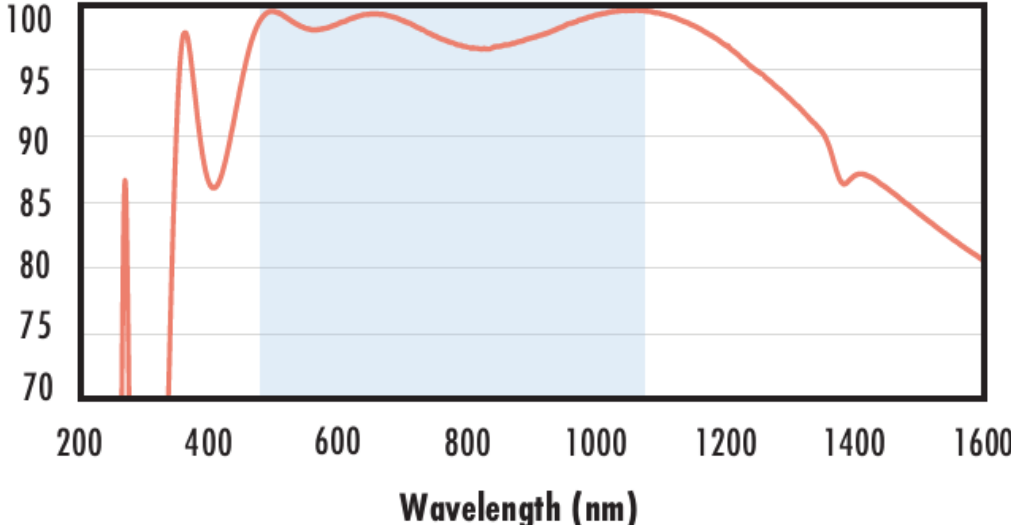
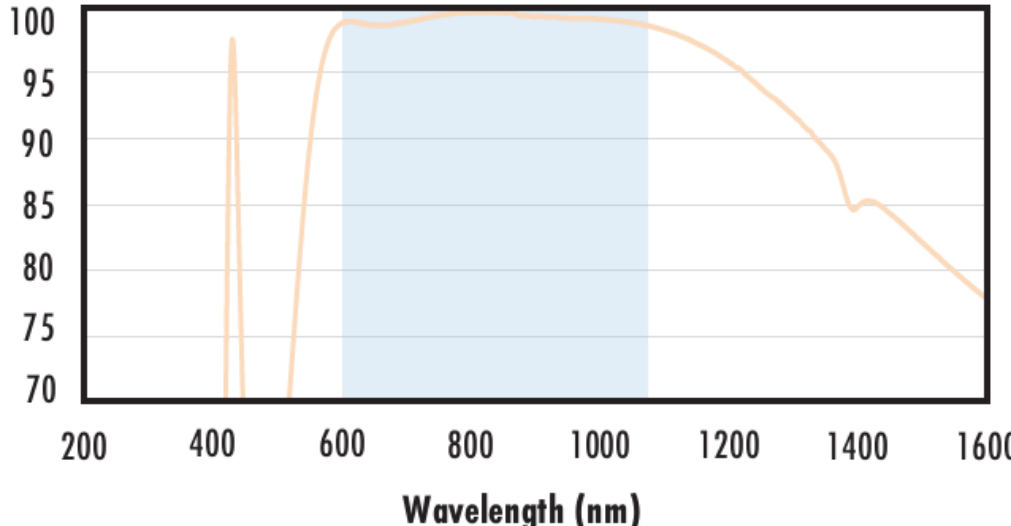
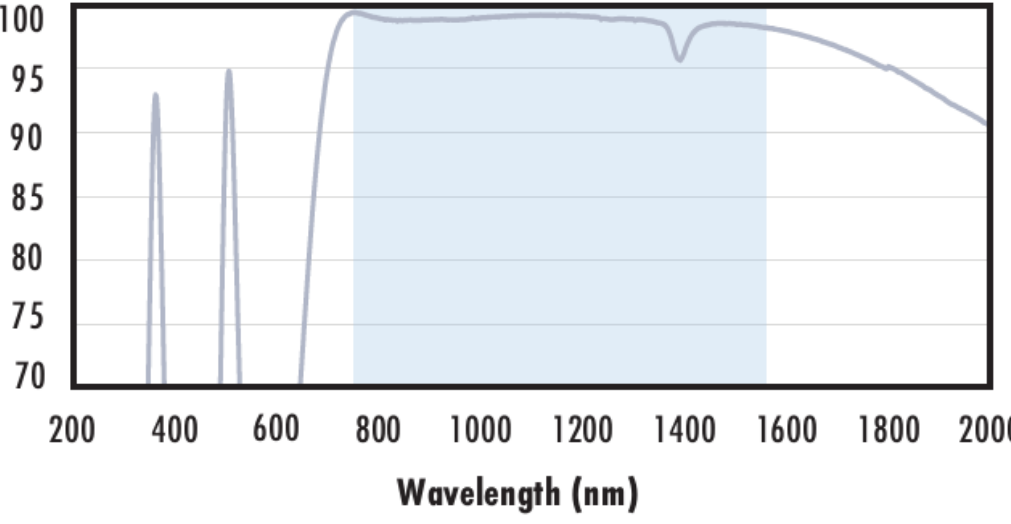
Fused Silica with UV-AR Coating  
Typical Transmission



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:

|                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     | <p>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><b>Fused Silica with UV-VIS Coating</b><br/><b>Typical Transmission</b></p>    | <p>Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 1.0\% @ 350 - 450\text{nm}</math><br/><math>R_{avg} \leq 1.5\% @ 250 - 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>                                                          |
| <p><b>Fused Silica with VIS-EXT Coating</b><br/><b>Typical Transmission</b></p>  | <p>Typical transmission of a 3mm thick fused silica 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>                                                                                                                  |
| <p><b>Fused Silica with VIS-NIR Coating</b><br/><b>Typical Transmission</b></p>  | <p>Typical transmission of a 3mm thick fused silica 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>Fused Silica with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>   | <p>Typical transmission of a 3mm thick fused silica 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>only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p><b>Fused Silica with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>  | <p>Typical transmission of a 3mm thick fused silica 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>Fused Silica with NIR I Coating</b><br/><b>Typical Transmission</b></p>   | <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\% @ 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>Fused Silica with NIR II Coating</b><br/><b>Typical Transmission</b></p>  | <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\% @ 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> |