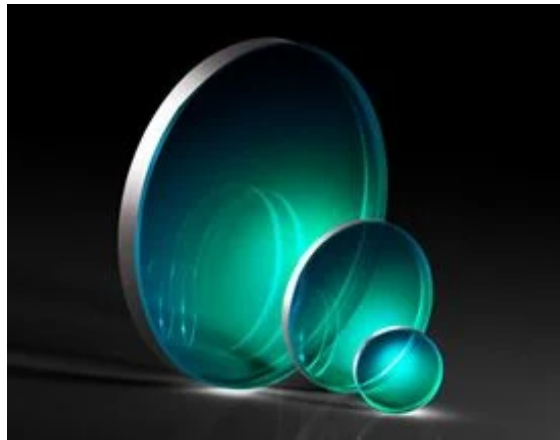


TECHSPEC® 50mm Dia., 4mm Thick, VIS 0° Coated, $\lambda/4$ Fused Silica

Window

#18-331



TECHSPEC® $\lambda/4$ UV Fused Silica Windows

TECHSPEC® $\lambda/4$ UV Fused Silica Windows are manufactured with 40-20 surface quality and $\lambda/4$ transmitted wavefront error specifications, making them ideal for imaging applications. Featuring UV fused silica substrates, these windows provide high transmission from the ultraviolet (UV) through the visible and near-infrared (NIR). Broadband anti-reflection (BBAR) coating options are available to minimize reflection losses and increase transmission. TECHSPEC $\lambda/4$ UV Fused Silica Windows are used in optical imaging applications, in low to medium powered laser applications, and as protective windows, especially in applications requiring transmission of UV light.

General

Type:	Protective Window
Type of Window:	Glass

Physical & Mechanical Properties

Clear Aperture CA (mm):	45.00
Diameter (mm):	50.00 +0.00/-0.10
Thickness (mm):	4.00 ±0.10
Parallelism (arcmin):	<1
Bevel:	Protective as needed
Clear Aperture (%):	90
Edges:	Fine Ground
Poisson's Ratio:	0.16
Young's Modulus (GPa):	73
Knoop Hardness (kg/mm ²):	522.00

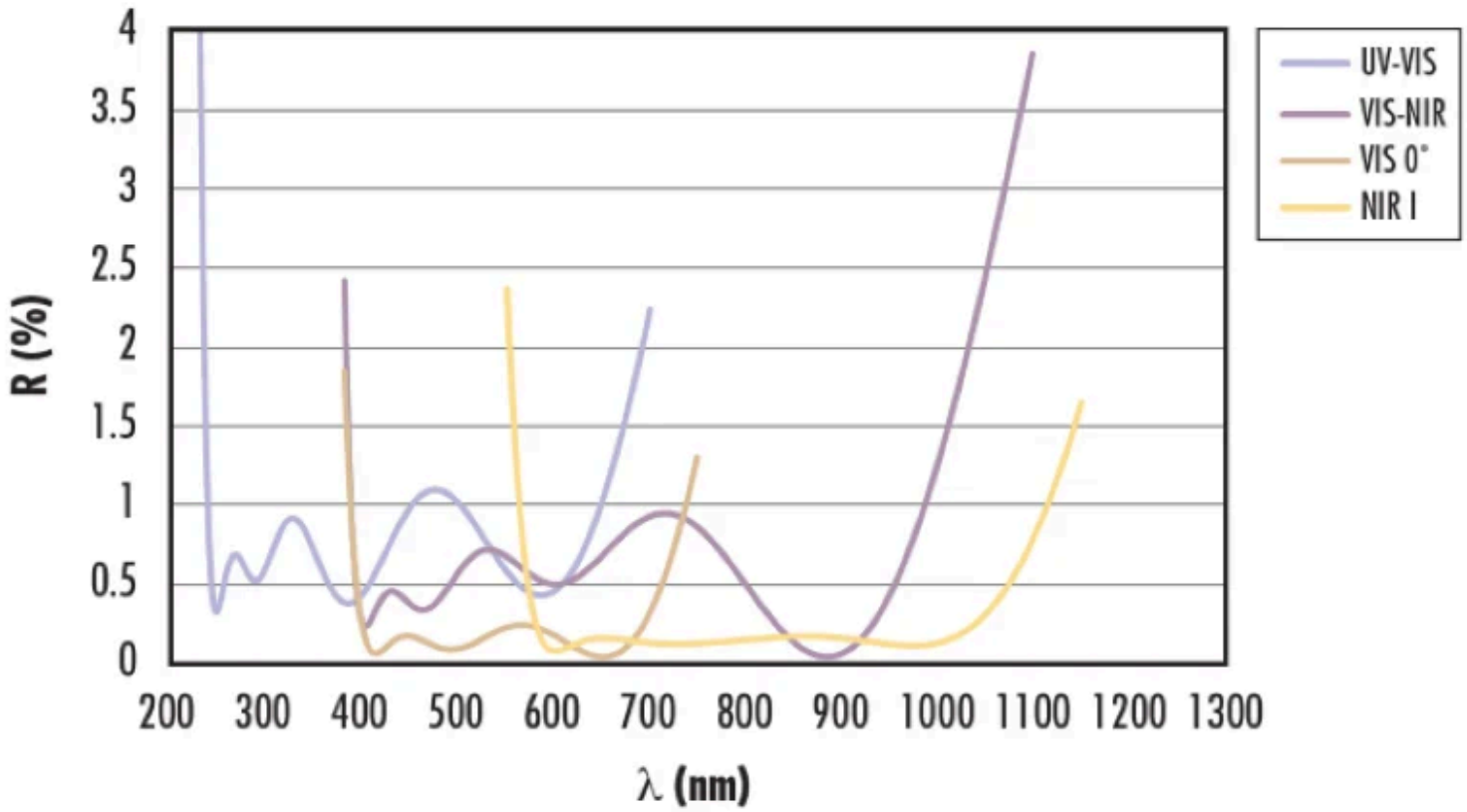
Optical Properties

Coating:	VIS 0° (425-675nm)
Substrate:	Fused Silica (Corning 7980)
Index of Refraction (n _d):	1.458
Surface Quality:	40-20
Transmitted Wavefront, P-V:	λ/4
Abbe Number (v _d):	67.8
Coating Specification:	R _{avg} ≤0.4% @ 425 - 675nm
Wavelength Range (nm):	425 - 675
Damage Threshold, Reference:	5 J/cm ² @ 532nm, 10ns

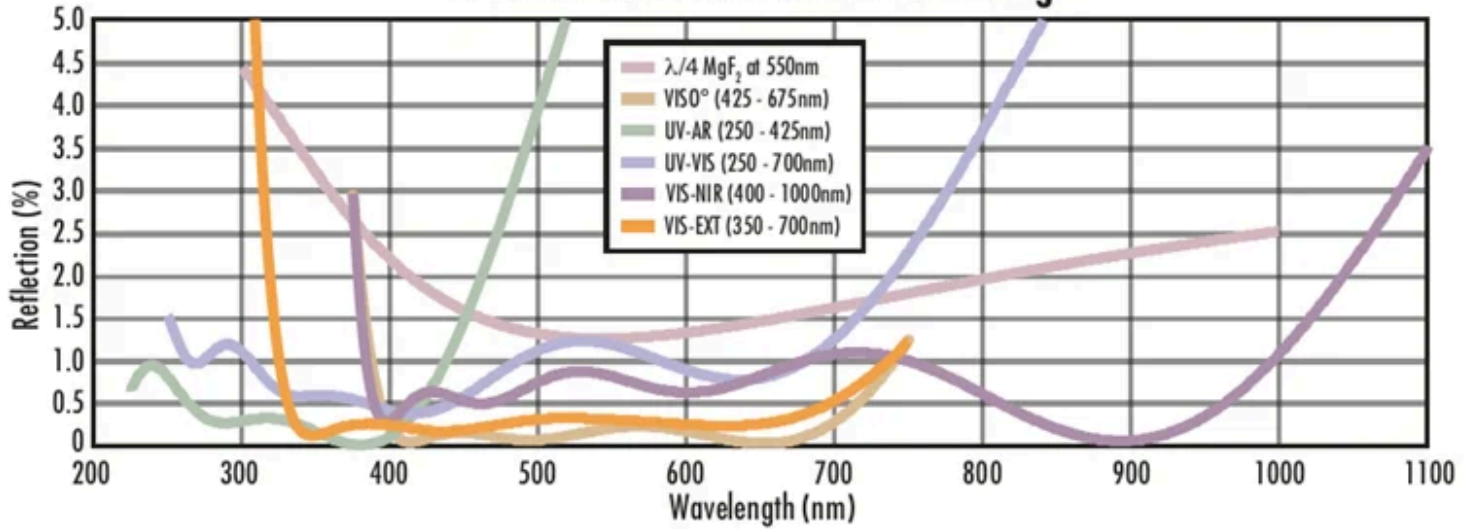
Material Properties

Density (g/cm ³):	2.20
Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):	0.52 (+5 to +35°C)
	0.57 (0 to +200°C)
	0.48 (-100 to +200°C)
Fused Silica Grade:	7980 0G

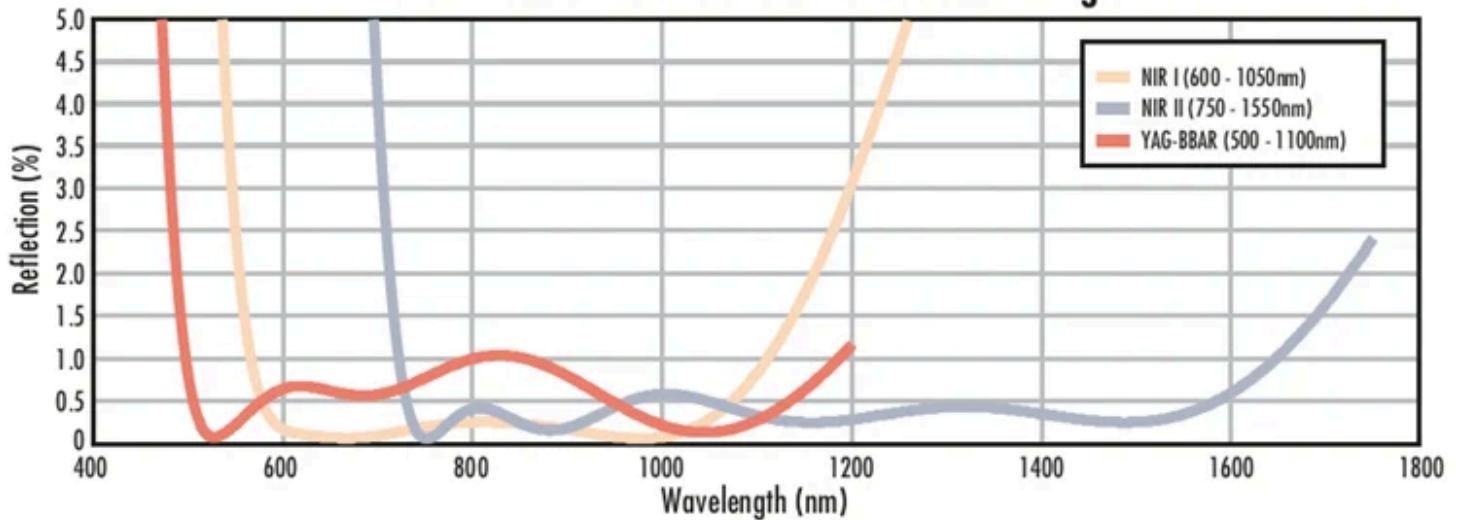
Anti-Reflection Coating Curves



Standard Visible Anti-Reflection Coatings



Standard Near Infrared Anti-Reflection Coatings



May 27, 2026

To Whom It May Concern,

#18-331
Subject to technical modifications (27-05-2026)

Stock No.

18-331

*Description*50mm Dia., 4mm Thick, VIS 0° Coated, $\lambda/4$ Fused Silica Window

This item is EU RoHS (2015/863/EU) compliant without the use of exemptions.

This certification means that:

- EO's suppliers have confirmed the material composition of this product.
- EO has implemented rigorous procedures to document this compliance.
- The information provided may, or may not, be based upon actual test data, or on information from our Vendors, Raw Material Suppliers or Subcontractors.



Jay Budd, Director of Corporate Compliance
May 27, 2026

Edmund Optics Inc. - 101 E Gloucester Pike, Barrington, NJ 08007 | 1-800-363-1992 | Compliance@edmundoptics.com



May 27, 2026

<i>Stock No.</i>	<i>Description</i>
18-331	50mm Dia., 4mm Thick, VIS 0° Coated, $\lambda/4$ Fused Silica Window

Edmund Optics certifies that all articles included in this shipment are in compliance with the terms and conditions of this order. The company also certifies that the articles included in this shipment are in accordance to all agreed upon specifications and quality assurance provisions. Please call 1-800-363-1992 should any questions arise from this shipment.



Jeff Harvey- EVP of Operations



May 27, 2026

To Whom It May Concern,

This document certifies that the product stated below has been reviewed as requested by Edmund Optics:

<i>Stock No.</i>	<i>Description</i>
18-331	50mm Dia., 4mm Thick, VIS 0° Coated, $\lambda/4$ Fused Silica Window

This item does not contain any of the substances listed on the Reach SVHC list as of 27 June 2024 in quantities exceeding 0.1% weight by weight.

Please note the following:

- Entry 11 of Annex V of the REACH regulation EC 1907/2006 as amended by regulation 987/2008, exempts “non-hazardous” glass components from registration.
- Items considered to be packing materials and which do not form part of, or are not required for the operation of, the product, are not considered to be within scope of this declaration.
- EO does not routinely analyze products for substances not purposely added or specified within the design specifications, drawings and assembly procedures.

This certification means that:

- EO's suppliers have confirmed the material composition of this product.
- EO has implemented rigorous procedures to document this compliance.
- The information provided may, or may not, be based upon actual test data, or on information from our Vendors, Raw Material Suppliers or Subcontractors.

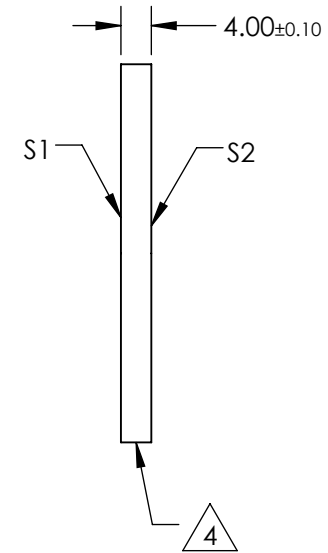
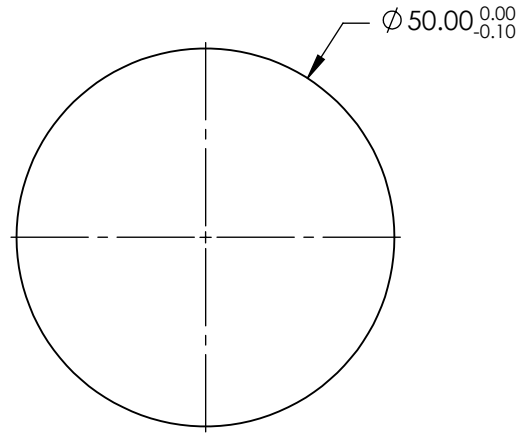
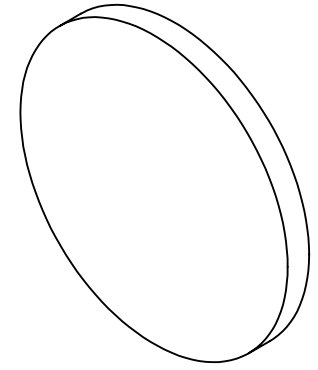


Jay Budd, Director of Corporate Compliance
May 27, 2026

Edmund Optics Inc. - 101 E Gloucester Pike, Barrington, NJ 08007 | 1-800-363-1992 | Compliance@edmundoptics.com

NOTES:

1. SUBSTRATE:
FUSED SILICA (CORNING 7980)
2. S2 TO BE PARALLEL WITH S1 TO WITHIN <1' ARCMIN
3. COATING (APPLY ACROSS CLEAR APERTURE)
S1 & S2: R(AVG) ≤0.4% @ 425 - 675nm
4. FINE GRIND SURFACE
5. ROHS COMPLIANT



**FOR INFORMATION ONLY:
DO NOT MANUFACTURE
PARTS TO THIS DRAWING**

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
DIMENSIONS ARE FOR REFERENCE ONLY

	S1	S2
SHAPE	PLANO	PLANO
SURFACE QUALITY	40-20	40-20
CLEAR APERTURE (mm)	Ø45.00	Ø45.00
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED



ALL DIMS IN mm

EO® Edmund Optics®

TITLE

50mm Dia., 4mm Thick, VIS 0° Coated, λ/4 Fused Silica Window

DWG NO

18331

SHEET 1 OF 1