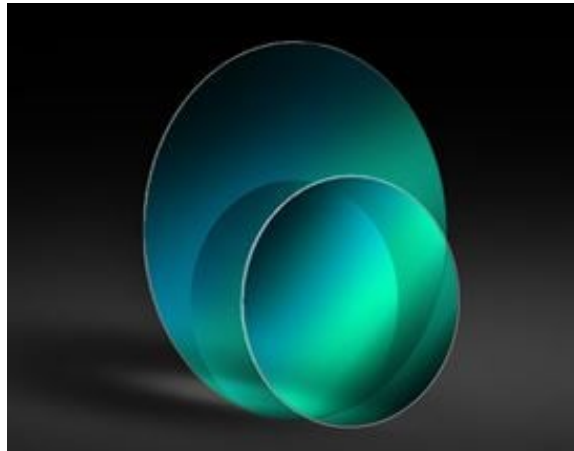


TECHSPEC® 10mm Diameter Uncoated, Ultra-Thin N-BK7 Window

#66-185



Ultra-Thin N-BK7 Windows

TECHSPEC® Ultra-Thin N-BK7 Windows는 당사의 윈도우 중 가장 얇은 윈도우이며 당사의 기존 N-BK7 윈도우 두께의 1/10에 불과합니다. 초박형 디자인은 질량 및 크기에 민감한 장비에 적용하기에 이상적입니다. 아울러 높은 허용 오차를 갖도록 설계되어 빔의 왜곡과 분산이 최소화됩니다. 제품은 비 코팅 처리 또는 MgF_2 AR 코팅 처리가 가능합니다. 주문형 사이즈나 코팅 옵션에 대해서는 당사 영업부에 문의하시기 바랍니다.

참고: Ultra-Thin N-BK7 Windows는 매우 약한 제품입니다. 취급 시 조심해서 다루시기 바랍니다.

General

Type: Protective Window

Physical & Mechanical Properties

Bevel:	Protective as needed
Clear Aperture CA (mm):	9.00
Diameter (mm):	10.00 +0.00/-0.10
Thickness (mm):	0.20 ±0.025
Edges:	Fine Ground
Knoop Hardness (kg/mm ²):	610
Parallelism (arcsec):	<30
Poisson's Ratio:	0.206
Young's Modulus (GPa):	82

Optical Properties

Abbe Number (v_d):	64.17
Coating:	Uncoated
Index of Refraction (n_d):	1.516
Substrate:	N-BK7
Surface Quality:	20-10
Transmitted Wavefront, P-V:	$\lambda/2$
Wavelength Range (nm):	350 - 2200

Material Properties

Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):	7.1 (-30 to +70°C)
	8.3 (+20 to +300°C)
Density (g/cm ³):	2.51



June 21, 2025

To Whom It May Concern,

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

재고 번호	제품설명
66-185	10mm Diameter Uncoated, Ultra-Thin N-BK7 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
June 21, 2025

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



June 21, 2025

To Whom It May Concern,

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

재고 번호	제품설명
66-185	10mm Diameter Uncoated, Ultra-Thin N-BK7 Window

This item does not contain any of the substances listed on the Reach SVHC list as of 8 July 2021 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.
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June 21, 2025

재고 번호

66-185

제품설명

10mm Diameter Uncoated, Ultra-Thin N-BK7 Window

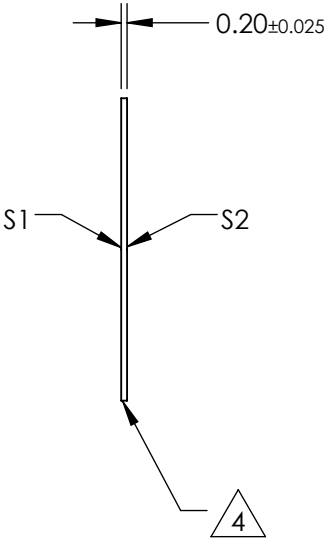
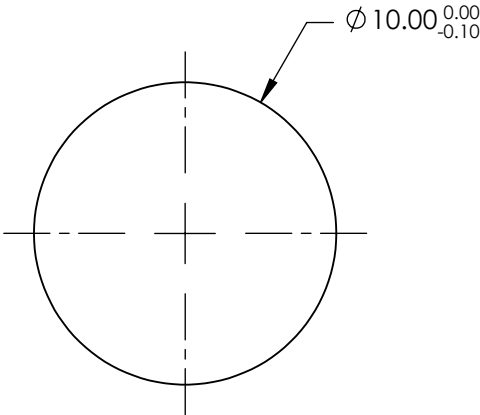
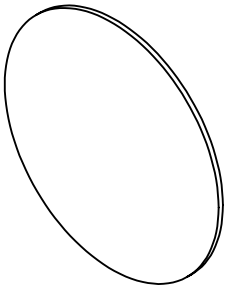
Edmund Optics certifies that all articles included in this shipment are in compliance with the terms and conditions of this order. The company also certifies that the articles included in this shipment are in accordance to all agreed upon specifications and quality assurance provisions. Please call 1-800-363-1992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



Jeff Harvey- EVP of Operations


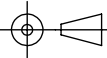
NOTES:

- 1. SUBSTRATE:
N-BK7
- 2. S2 TO BE PARALLEL WITH S1 TO <30 arcsec
- 3. COATING (APPLY ACROSS CLEAR APERTURE)
S1 & S2: NONE
- 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				 Edmund Optics®	
SHAPE		PLANO	PLANO		TITLE		10mm DIAMETER UNCOATED, ULTRA-THIN N-BK7 WINDOW	
SURFACE QUALITY		20-10	20-10		DWG NO		66185	
WAVELENGTH RANGE		350 - 2200nm	350 - 2200nm				SHEET 1 OF 1	
BEVEL		PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED		ALL DIMS IN	mm		