

TECHSPEC<sup>®</sup> 20mm Dia., 1mm Thick, MgF<sub>2</sub> Coated, B270 Window

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Stock #17-174 20+ In Stock

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1

+

£34<sup>80</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | £34.80 each                   |
| Qty 6-25       | £28.00 each                   |
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 Prices shown are exclusive of VAT/local taxes

Product Downloads

25.00

#Sorting:

General

Protective Window

Type:

Physical & Mechanical Properties

|                      |                          |
|----------------------|--------------------------|
| 18.00                | Clear Aperture CA (mm):  |
| 20.00 +0.00/-0.25    | Diameter (mm):           |
| 1.00 ±0.10           | Thickness (mm):          |
| Protective as needed | Bevel:                   |
| Fine Ground          | Edges:                   |
| 0.22                 | Poisson's Ratio:         |
| 71.5                 | Young's Modulus (GPa):   |
| 500.00               | Knoop Hardness (kg/mm²): |

|                                           |                                        |
|-------------------------------------------|----------------------------------------|
| Optical Properties                        |                                        |
| MgF <sub>2</sub> (632.8nm)                | Coating:                               |
| B270                                      | Substrate: □                           |
| 1.523                                     | Index of Refraction (n <sub>d</sub> ): |
| 60-40                                     | Surface Quality:                       |
| 58.3                                      | Abbe Number (v <sub>d</sub> ):         |
| R <sub>avg</sub> ≤1.50% @ 632.8nm (N-BK7) | Coating Specification:                 |
| 400 - 700                                 | Wavelength Range (nm):                 |
| 1λ                                        | Surface Flatness (P-V):                |
| 10 J/cm <sup>2</sup> @ 532nm, 10ns        | Damage Threshold, By Design:           |

|                     |                                                              |
|---------------------|--------------------------------------------------------------|
| Material Properties |                                                              |
| 2.56                | Density (g/cm³):                                             |
| 9.4 (+20 to +300°C) | Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C): |

|                       |                             |
|-----------------------|-----------------------------|
| Regulatory Compliance |                             |
| Compliant             | RoHS 2015:                  |
| View                  | Certificate of Conformance: |
| Compliant             | Reach 235:                  |

## Product Details

- Large Selection of Sizes
- Available Uncoated, MgF2, or VIS-NIR Anti-Reflection (AR) Coated
- Custom Sizes Available for Volume OEM Requirements

TECHSPEC® B270 Windows offer a high transmission from the visible to the near-infrared (NIR). They have a similar refractive index to N-BK7 while being more cost-effective. These windows are often used as a protective element due to their high solarization stability and chemical resistance, making them ideal for standard window applications. TECHSPEC® B270 Windows are available either uncoated or coated with a MgF2 or VIS-NIR Anti-Reflection (AR) Coating. Both circular and square options are offered in various sizes, and custom sizes and coatings are available for OEM applications.

## Technical Information



## Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Compatible Mounts

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