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## Sapphire Windows with Through Holes



- 25.4mm Diameter Sapphire Substrates
- 3.2 - 19.1mm Through Hole Diameters
- High Transmission From 0.33 - 5.5 $\mu$ m

# Common Specifications

## Physical & Mechanical Properties

<b>Bevel:</b>	Protective as needed	<b>Diameter (mm):</b>	25.40 ±0.127
<b>Thickness (mm):</b>	1.00 ±0.127	<b>Knoop Hardness (kg/mm<sup>2</sup>):</b>	1,900.00
<b>Parallelism (arcmin):</b>	≤3.5	<b>Poisson's Ratio:</b>	0.27
<b>Young's Modulus (GPa):</b>	435		

## Optical Properties

<b>Abbe Number (v<sub>d</sub>):</b>	72.24		
<b>Axis Orientation:</b>	Random	<b>Birefringence (n<sub>o</sub>-n<sub>e</sub>):</b>	0.008 for Visible Light Orthogonal to Optical Axis
<b>Coating:</b>	Uncoated	<b>Index of Refraction (n<sub>d</sub>):</b>	1.77
<b>Substrate:</b>	Sapphire (Al <sub>2</sub> O <sub>3</sub> )	<b>Surface Flatness (P-V):</b>	2λ (typical)
<b>Surface Quality:</b>	80-50	<b>Wavelength Range (nm):</b>	330 - 5500

## Material Properties

<b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b>	8.8	<b>Density (g/cm<sup>3</sup>):</b>	3.97
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## Technical Information

## Products

Dia. (mm)	Through Hole Diameter (mm)	Thickness (mm)	Coating	Stock Number	Price	Buy
25.40	3.20	1.00	Uncoated	<a href="#">#17-215</a>	₹8,289 <a href="#">Volume Pricing</a>	20+ In Stock
25.40	6.35	1.00	Uncoated	<a href="#">#17-214</a>	₹8,289 <a href="#">Volume Pricing</a>	20+ In Stock
25.40	12.70	1.00	Uncoated	<a href="#">#17-213</a>	₹8,289 <a href="#">Volume Pricing</a>	7 In Stock
25.40	19.10	1.00	Uncoated	<a href="#">#17-212</a>	₹8,289 <a href="#">Volume Pricing</a>	20+ In Stock



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Phone: 1-800-363-1992 :

[www.edmundoptics.com](http://www.edmundoptics.com)