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## 632.8nm, $\lambda/2$ Precision Zero Order Retarder



Stock #49-211 **1 In Stock**

- 1 + €755<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €755,00 each                  |
| Qty 6+         | €600,00 each                  |
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**!** Prices shown are exclusive of VAT/local taxes

### Product Downloads

### General

Polymer Waveplate **Type:**

### Physical & Mechanical Properties

10.16 **Clear Aperture CA (mm):**

|        |                                    |
|--------|------------------------------------|
| 25.40  | <b>Diameter (mm):</b>              |
| ±0.508 | <b>Thickness Tolerance (mm):</b>   |
| ±0.127 | <b>Dimensional Tolerance (mm):</b> |

|                            |                      |
|----------------------------|----------------------|
| Birefringent Polymer Stack | <b>Construction:</b> |
|----------------------------|----------------------|

## Optical Properties

|       |                                    |
|-------|------------------------------------|
| 632.8 | <b>Design Wavelength DWL (nm):</b> |
|-------|------------------------------------|

|                                       |  |
|---------------------------------------|--|
| Polymer Film on <a href="#">N-BK7</a> | <b>Substrate:</b> <input type="checkbox"/> |
|---------------------------------------|--|

|     |                        |
|-----|------------------------|
| 0.5 | <b>Reflection (%):</b> |
|-----|------------------------|

|             |                    |
|-------------|--------------------|
| $\lambda/2$ | <b>Retardance:</b> |
|-------------|--------------------|

|       |                         |
|-------|-------------------------|
| 40-20 | <b>Surface Quality:</b> |
|-------|-------------------------|

|                            |                                    |
|----------------------------|------------------------------------|
| $\leq \lambda/5$ @ 632.8nm | <b>Transmitted Wavefront, RMS:</b> |
|----------------------------|------------------------------------|

|               |                              |
|---------------|------------------------------|
| $\lambda/350$ | <b>Retardance Tolerance:</b> |
|---------------|------------------------------|

|      |                                 |
|------|---------------------------------|
| 1.00 | <b>Beam Deviation (arcmin):</b> |
|------|---------------------------------|

|                       |  |
|-----------------------|--|
| 500 W/cm <sup>2</sup> | <b>Damage Threshold, By Design:</b> <input type="checkbox"/> |
|-----------------------|--|

|   |                          |
|---|--------------------------|
| 0 | <b>Retardance Order:</b> |
|---|--------------------------|

## Threading & Mounting

|      |                              |
|------|------------------------------|
| 6.35 | <b>Mount Thickness (mm):</b> |
|------|------------------------------|

## Environmental & Durability Factors

|            |                                    |
|------------|------------------------------------|
| -20 to +50 | <b>Operating Temperature (°C):</b> |
|------------|------------------------------------|

## Regulatory Compliance

|                           |                   |
|---------------------------|-------------------|
| <a href="#">Compliant</a> | <b>RoHS 2015:</b> |
|---------------------------|-------------------|

|                      |                                    |
|----------------------|------------------------------------|
| <a href="#">View</a> | <b>Certificate of Conformance:</b> |
|----------------------|------------------------------------|

|                           |                   |
|---------------------------|-------------------|
| <a href="#">Compliant</a> | <b>REACH 241:</b> |
|---------------------------|-------------------|

## Product Details

- $\lambda/4$  and  $\lambda/2$  Retardance
- Excellent Angular Field of View
- Birefringent Polymer Stack
- High Damage Threshold of 500 W/cm<sup>2</sup>

Precision Zero Order Waveplates (Retarders) feature carefully aligned birefringent polymer sheets laminated between two precision N-BK7 windows, and are available in standard  $\lambda/4$  and  $\lambda/2$  options for common visible and NIR wavelengths. These polymer waveplates (retarders) offer excellent angular field of view because they are true zero-order retarders. Also, they will experience less than 1% retardance change over a  $\pm 10^\circ$  angle of incidence. Each Precision Zero Order Waveplates (Retarders) is mounted in a metal ring with the fast axis clearly marked.