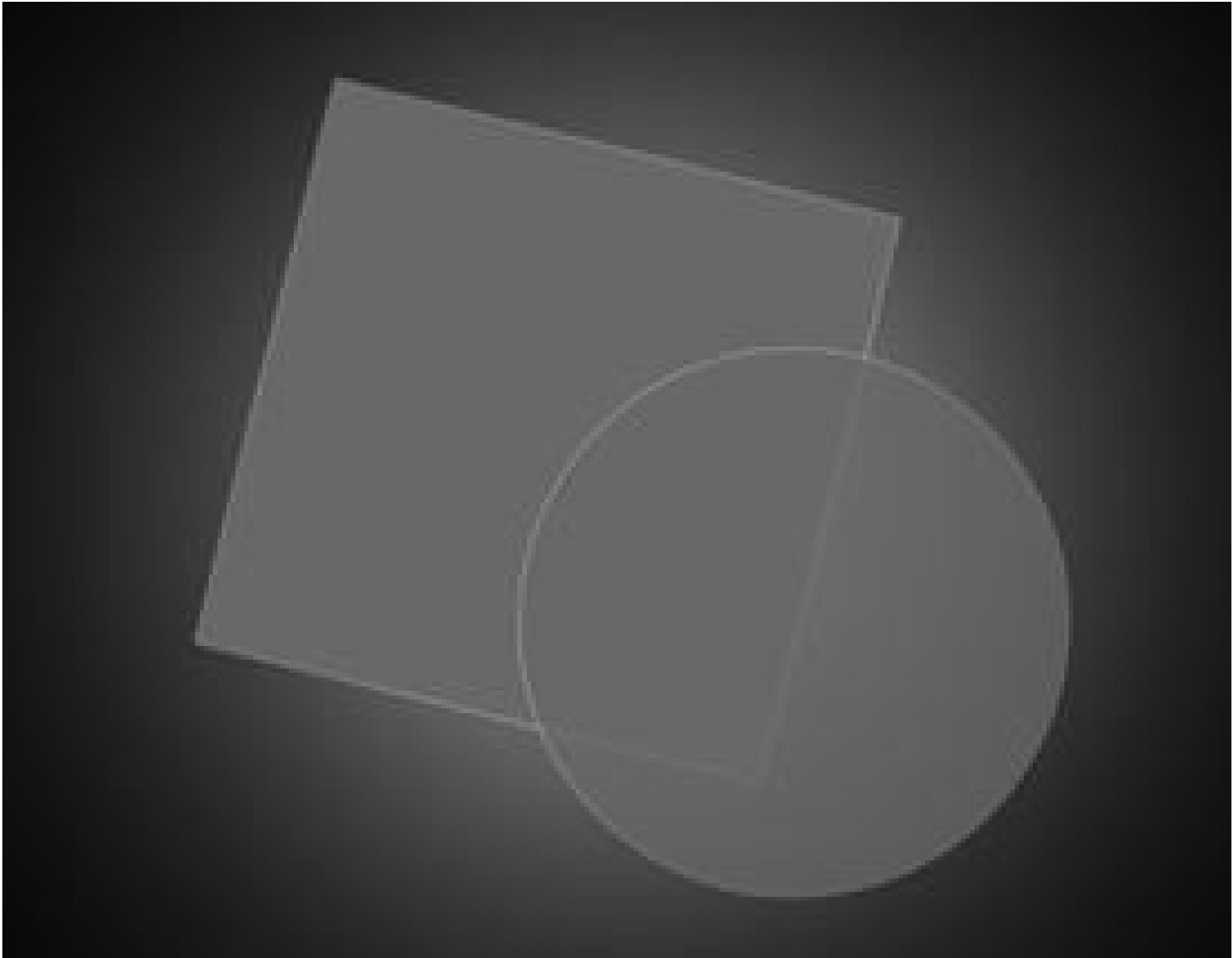
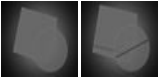


## 50mm Dia., $\lambda/2$ Retarder Film (WP280)



Retarder Film with protective film removed



Stock **#25-371** 20+ In Stock

-

1

+

S\$28<sup>.38</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-10       | S\$28.38 each                 |
| Qty 11+        | S\$23.90 each                 |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

### SPECIFICATIONS

General

Retarder Film

Type:

Note:

Fast axis is indicated by a black stripe on the protective film. This film should be removed before use.

| Physical & Mechanical Properties   |                                     |
|------------------------------------|-------------------------------------|
| 50.00 +0/-0.5                      | Diameter (mm):                      |
| 0.06 ±0.01                         | Thickness (mm):                     |
| Polarizing Film                    | Construction:                       |
| Optical Properties                 |                                     |
| 560                                | Design Wavelength DWL (nm):         |
| Polymer Film WP280                 | Substrate: <input type="checkbox"/> |
| λ/2                                | Retardance:                         |
| >90                                | Transmission (%):                   |
| 180.00                             | Phase Shift (°):                    |
| 400 - 700                          | Wavelength Range (nm):              |
| 280 ±5                             | Retardation (nm):                   |
| Material Properties                |                                     |
| <1                                 | Haze (%):                           |
| Environmental & Durability Factors |                                     |
| -30 to +80                         | Operating Temperature (°C):         |
| 80 x 1000                          | Heat Resistance (°C x Hours):       |
| Regulatory Compliance              |                                     |
| Compliant                          | RoHS 2015:                          |
| View                               | Certificate of Conformance:         |
| Compliant                          | Reach 235:                          |

## PRODUCT DETAILS

- Highly Durable Polymer Sheets
  - λ/4 (WP140HE) Achromatic Retarder with Greater than 90% Transmission from 450-700nm
  - λ/4 (WP140HE), λ/2 (WP280), and 1λ (WP560) Retarder Films Available
- Polymer Retarder Film is an extremely durable, birefringent polymer sheet that has been designed to modify the polarization state of transmitted light. The highly transparent, achromatic λ/4 (WP140HE) and λ/2 (WP280) Polymer Retarder Films consist of a single layer, modified polycarbonate sheet that acts an achromatic retarder, and is optically and mechanically sound up to 90°C or 80°C respectively. The 1λ (WP560) Polymer Retarder Film consists of two λ/2 films that have been laminated together to create retardation values of 560nm. These films are ideal for use in a variety of coherent and polarized light applications, including circular polarizers, LCDs, and fiber optics.

### Immediate Custom Quotes Available

If you have a need for anyround, square, or rectangular size of a Polymer Retarder Film in dimensions between 3mm and 600mm, please visit our [Polarizing Film Tool](#). We'll provide an immediate quote, and can deliver the part to your requested size in approximately 3 weeks. A full list of standard manufacturing tolerances and restrictions are listed. For fully customized polymer polarizers to your requirements, visit our [Customized Polymer Polarizers Capabilities](#) page.

## TECHNICAL INFORMATION

Polymer Retarder Film

