

## 100 x 100mm, $\lambda/2$ Retarder Film (WP280)



Retarder Film with protective film removed



Stock #88-255 **20+ In Stock**

- 1 + C\$46<sup>90</sup>

**ADD TO CART**

### Volume Pricing

Qty 1-10	C\$46.90 each
Qty 11+	C\$40.74 each
Need More?	<a href="#">Request Quote</a>

### Product Downloads

### 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

100.00	<b>Length (mm):</b>
100.0 x 100.0	<b>Dimensions (mm):</b>
0.06 ±0.006	<b>Thickness (mm):</b>
+0.0/-1.0	<b>Dimensional Tolerance (mm):</b>
Polarizing Film	<b>Construction:</b>
100.00	<b>Width (mm):</b>

## Optical Properties

560	<b>Design Wavelength DWL (nm):</b>
<a href="#">Polymer Film WP280</a>	<b>Substrate:</b> <input type="checkbox"/>
$\lambda/2$	<b>Retardance:</b>
>90	<b>Transmission (%):</b>
180.00	<b>Phase Shift (°):</b>
400 - 700	<b>Wavelength Range (nm):</b>
280 ±5	<b>Retardation (nm):</b>

## Material Properties

<1	<b>Haze (%):</b>
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## Environmental & Durability Factors

-30 to +80	<b>Operating Temperature (°C):</b>
80 x 1000	<b>Heat Resistance (°C x Hours):</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 235:</b>

## Product Details

- Highly Durable Polymer Sheets
- $\lambda/4$  (WP140HE) Achromatic Retarder with Greater than 90% Transmission from 450-700nm
- $\lambda/4$  (WP140HE),  $\lambda/2$  (WP280), and  $1\lambda$  (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  $\lambda/4$  (WP140HE) and  $\lambda/2$  (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  $1\lambda$  (WP560) Polymer Retarder Film consists of two  $\lambda/2$  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 any round, 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**

