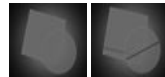


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## 25mm Dia., $\lambda/2$ Retarder Film (WP280)



Retarder Film with protective film removed



Stock #25-370 **20+ In Stock**

⊖ 1 ⊕ £14.<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-10	£14.20 each
Qty 11+	£12.48 each
Need More?	<a href="#">Request Quote</a>

ⓘ Prices shown are exclusive of VAT/local taxes

### 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

25.00 +0/-0.3      **Diameter (mm):**

0.06 ±0.01      **Thickness (mm):**

Polarizing Film      **Construction:**

## Optical Properties

560      **Design Wavelength DWL (nm):**

[Polymer Film WP280](#)      **Substrate:**

$\lambda/2$       **Retardance:**

>90      **Transmission (%):**

180.00      **Phase Shift (°):**

400 - 700      **Wavelength Range (nm):**

147 ±4      **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
- $\lambda/4$  (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 as 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

