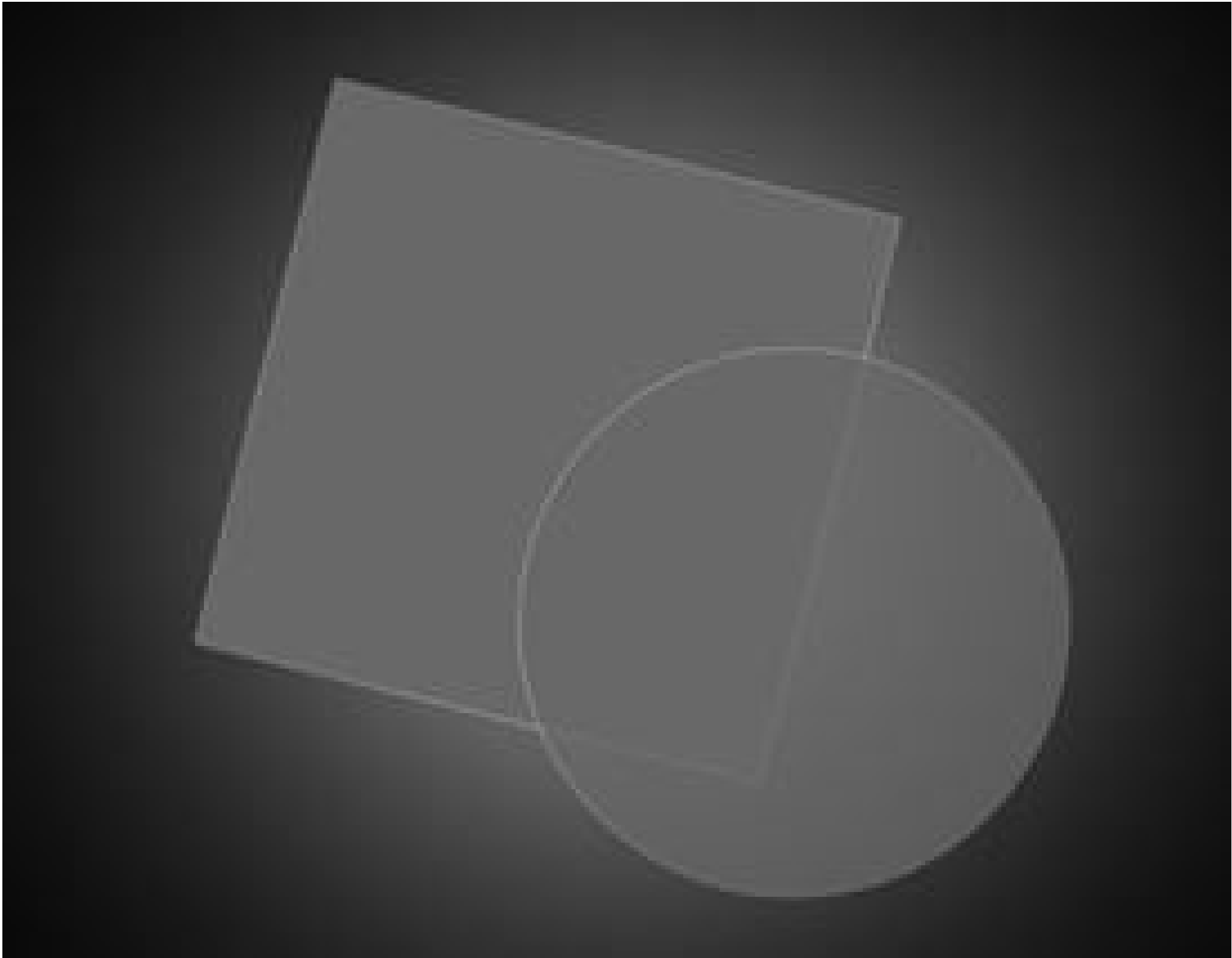
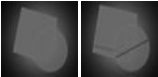


100 x 100mm, $\lambda/2$ Retarder Film (WP280)



Retarder Film with protective film removed



Stock **#88-255** **9 In Stock**

-

1

+

€30⁹⁰

ADD TO CART

Volume Pricing	
Qty 1-10	€30,90 each
Qty 11+	€26,78 each
Need More?	Request Quote

 Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Type:

Retarder Film	
Note: Fast axis is indicated by a black stripe on the protective film. This film should be removed before use.	
Physical & Mechanical Properties	
Length (mm):	100.00
Dimensions (mm):	100.0 x 100.0
Thickness (mm):	0.06 ±0.006
Dimensional Tolerance (mm):	+0.0/-1.0
Construction:	Polarizing Film
Width (mm):	100.00
Optical Properties	
Design Wavelength DWL (nm):	560
Substrate:	Polymer Film WP280
Retardance:	$\lambda/2$
Transmission (%):	>90
Phase Shift (°):	180.00
Wavelength Range (nm):	400 - 700
Retardation (nm):	280 ±5
Material Properties	
Haze (%):	<1
Environmental & Durability Factors	
Operating Temperature (°C):	-30 to +80
Heat Resistance (°C x Hours):	80 x 1000
Regulatory Compliance	
RoHS 2015:	Compliant
Certificate of Conformance:	View
Reach 235:	Compliant

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 λ (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 λ (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 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

