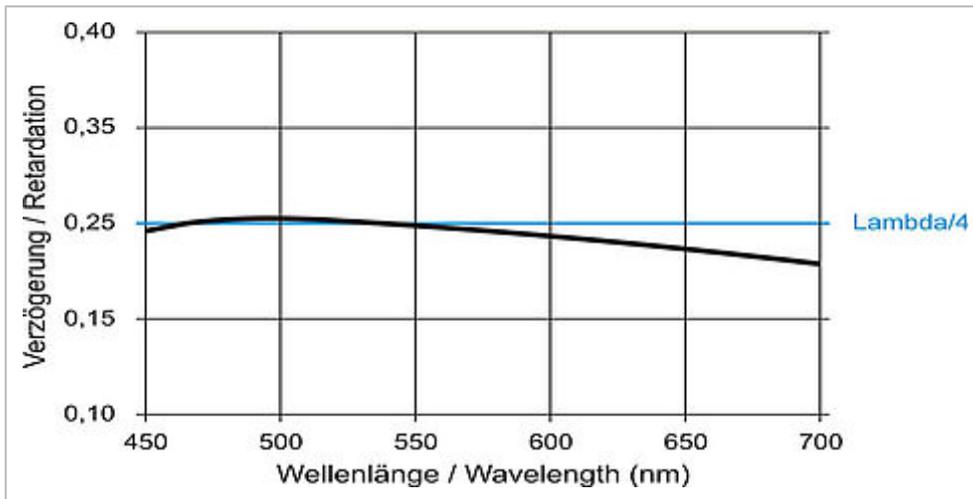


# WP140HE RETARDER



The WP140HE is a highly transparent optical retarder with a quarter-wave retardance for 560nm. The achromatic properties of the polymer film based on polycarbonate allows the use of the quarter-wave sheet within the range 450-650nm.

Application areas:

- Circular polarizer
- Polarization state inversion

## Specification

Specification	Unit	Value
Retardation	nm	142 +/-5
range of use	nm	from 450 to 660
Wavelength dispersion	nm	R450 / R550 0.83
	nm	R650 / R550 1.06
Transmission	%	>90
Haze	%	<0.2

## Dimension

Dimension	Thickness	Characteristics
500 mm x 600 mm	75 µm	Polymer film
300 mm x 300 mm	75 µm	Polymer film

## Resistance

Resistance	Unit	Value
Heat resistance	°C x hours	90x1,000
Cold resistance	°C x hours	-40x1,000
Humidity resistance	°C x hours	60x90% RHx1,000
Retardation variance	nm	<+/-4
Range of use	°C	from -40 to +90

Custom sizes available on demand.

The direction of polarization is parallel to the fast axis.

Protective films on both sides should be removed before using the polarizers within your application.

We reserve the right to change the technical specifications at any time.