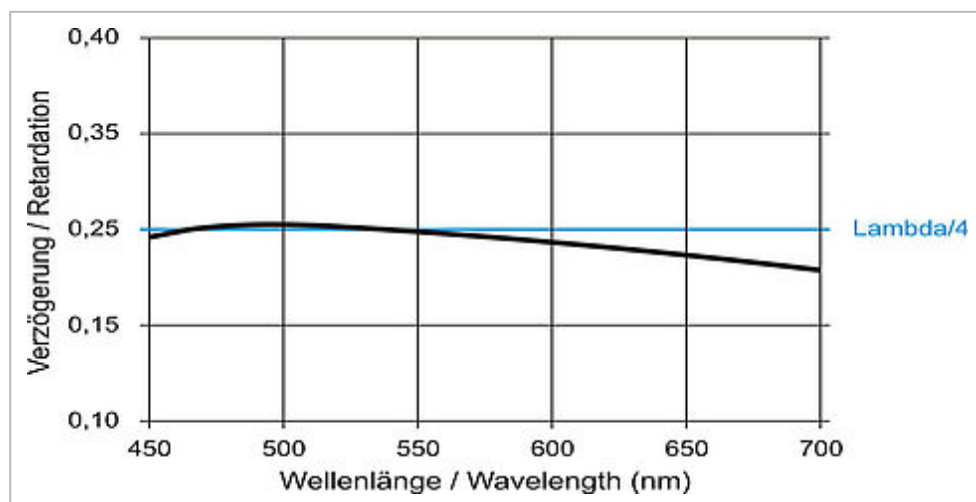


# WP140HE RETARDER



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         | 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       | Thickness | Characteristics |
|-----------------|-----------|-----------------|
| 500 mm x 600 mm | 75 µm     | Polymer film    |
| 300 mm x 300 mm | 75 µm     | Polymer film    |

| 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.