

[All Products](#) / [Optics](#) / [Polarization Optics](#) / [Retarders \(Waveplates\)](#) / [Polymer Waveplates](#)

Precision Zero Order Waveplates (Retarders)



- $\lambda/4$ and $\lambda/2$ Retardance
- Excellent Angular Field of View
- Birefringent Polymer Stack
- High Damage Threshold of 500 W/cm²

Common Specifications

Physical & Mechanical Properties

Clear Aperture CA (mm):	10.16	Diameter (mm):	25.40
Thickness Tolerance (mm):	±0.508	Dimensional Tolerance (mm):	±0.127
Construction:	Birefringent Polymer Stack		

Optical Properties

Substrate:	Polymer Film on N-BK7		
Reflection (%):	0.5	Surface Quality:	40-20
Transmitted Wavefront, RMS:	≤λ/5 @ 632.8nm	Retardance Tolerance:	λ/350
Damage Threshold, By Design:	500 W/cm ²	Retardance Order:	0

Threading & Mounting

Mount Thickness (mm):	6.35
-----------------------	------

Environmental & Durability Factors

Operating Temperature (°C):	-20 to +50
-----------------------------	------------

Technical Information

Products

Retardance	DWL (nm)	CA (mm)	Dia. (mm)	Type	Surface Quality	Stock Number	Price	Buy
$\lambda/4$	488	10.16	25.40	Polymer Waveplate	40-20	#49-218	€710,70 Volume Pricing	2 In Stock
$\lambda/2$	488	10.16	25.40	Polymer Waveplate	40-20	#49-209	€710,70 Volume Pricing	1 In Stock
$\lambda/4$	532	10.16	25.40	Polymer Waveplate	40-20	#49-219	€710,70 Volume Pricing	2 In Stock
$\lambda/2$	532	10.16	25.40	Polymer Waveplate	40-20	#49-210	€710,70 Volume Pricing	6 In Stock
$\lambda/4$	632.8	10.16	25.40	Polymer Waveplate	40-20	#49-220	€710,70 Volume Pricing	Contact Us
$\lambda/2$	632.8	10.16	25.40	Polymer Waveplate	40-20	#49-211	€710,70 Volume Pricing	1 In Stock
$\lambda/4$	670	10.16	25.40	Polymer Waveplate	40-20	#49-221	€710,70 Volume Pricing	2 In Stock
$\lambda/2$	670	10.16	25.40	Polymer Waveplate	40-20	#49-212	€710,70 Volume Pricing	3 In Stock
$\lambda/4$	780	10.16	25.40	Polymer Waveplate	40-20	#49-222	€710,70 Volume Pricing	2 In Stock
$\lambda/2$	780	10.16	25.40	Polymer Waveplate	40-20	#49-213	€710,70 Volume Pricing	2 In Stock
$\lambda/4$	800	10.16	25.40	Polymer Waveplate	40-20	#49-223	€710,70 Volume Pricing	2 In Stock
$\lambda/2$	800	10.16	25.40	Polymer Waveplate	40-20	#49-214	€710,70 Volume Pricing	4 In Stock
$\lambda/4$	830	10.16	25.40	Polymer Waveplate	40-20	#49-224	€710,70 Volume Pricing	4 In Stock
$\lambda/2$	830	10.16	25.40	Polymer Waveplate	40-20	#49-215	€710,70 Volume Pricing	3 In Stock
$\lambda/4$	1064	10.16	25.40	Polymer Waveplate	40-20	#49-225	€710,70 Volume Pricing	1 In Stock
$\lambda/2$	1064	10.16	25.40	Polymer Waveplate	40-20	#49-216	€710,70 Volume Pricing	1 In Stock
$\lambda/4$	1550	10.16	25.40	Polymer Waveplate	40-20	#49-226	€710,70 Volume Pricing	2 In Stock
$\lambda/2$	1550	10.16	25.40	Polymer Waveplate	40-20	#49-217	€710,70 Volume Pricing	3 In Stock



Copyright 2023 | Edmund Optics, Ltd Unit 1, Opus Avenue, Nether Poppleton, York, YO26 6BL, UK

Phone: 1-800-363-1992 :

www.edmundoptics.com