

# Polarizer Selection Chart

Linear						
Polarizer Type	Page	Product Features	Wavelength Range			
			500	1000	1500	2000
Precision Dichroic	6	<ul style="list-style-type: none"> <li>• custom shapes and large apertures available</li> <li>• ultraviolet, visible, near infrared versions</li> <li>• most economical linear polarizer choice</li> <li>• limited power handling capability</li> </ul>				
High Contrast	8	<ul style="list-style-type: none"> <li>• high contrast</li> <li>• high transmission</li> <li>• wavelength-specific design</li> </ul>				
Ultra-High Contrast	9	<ul style="list-style-type: none"> <li>• broad spectral performance</li> <li>• high temperature resistance</li> <li>• highest available contrast ratio</li> <li>• excellent ultraviolet product option</li> </ul>				
Glan-Thompson	18	<ul style="list-style-type: none"> <li>• excellent extinction ratio</li> <li>• broad spectral performance</li> <li>• multilayer BBAR coatings also available</li> </ul>				
<b>Beamsplitting</b>						
VersaLight	11	<ul style="list-style-type: none"> <li>• broad spectral performance</li> <li>• specularly reflective operation</li> <li>• high power handling capability</li> <li>• visible and near infrared versions</li> <li>• up to 170 mm apertures available</li> </ul>				
Laser Line	13	<ul style="list-style-type: none"> <li>• high contrast</li> <li>• low reflectance</li> <li>• high damage threshold</li> </ul>				
Broadband	15	<ul style="list-style-type: none"> <li>• high contrast</li> <li>• high damage threshold</li> <li>• broad spectral performance</li> </ul>				
<b>Circular</b>						
Dichroic Circular	20	<ul style="list-style-type: none"> <li>• high isolation</li> <li>• large diameters available</li> <li>• achromatic versions for broadband performance</li> </ul>				
Beam Separator	21	<ul style="list-style-type: none"> <li>• high isolation</li> <li>• excellent wavefront quality</li> <li>• robust opto-mechanical design</li> </ul>				

standard products    custom options

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Reflectance (maximum per surface)	Beam Deviation (maximum)	Transmitted Wavefront Distortion (maximum at 632.8 nm)	Acceptance Angle	Clear Aperture (diameter)
UV: ~4.25% VIS: 0.50% NIR: 0.50%	UV: 2 arc min VIS: 1 arc min NIR: 2 arc min	UV: $\lambda/2$ VIS: $\lambda/5$ NIR: $\lambda/2$	$\pm 10^\circ$	0.40, 0.70, 0.80, 1.20 in.
0.50%	3 arc min	$\lambda/4$	$\pm 5^\circ$	0.40, 0.70 in.
~4% (uncoated)	5 arc min	1 $\lambda$ per 10mm diameter	$\pm 5^\circ$	0.40, 0.70, 0.80 in.
~1.50% (coated) ~4.50% (uncoated)	3 arc min	$\lambda$	$\pm 5^\circ$	5, 8, 10 mm
Beamsplitting				
1.50%	1 arc min	UV: $\lambda/4$ per inch NIR: 5 $\lambda$ per inch IR: 5 $\lambda$ per inch	$\pm 45^\circ$	0.40, 0.80 in.
0.25%	Trans: 3 arc min Ref: 6 arc min	$\lambda/5$	$\pm 2^\circ$	0.40, 0.80 in.
0.50%	Trans: 3 arc min Ref: 6 arc min	$\lambda/5$	$\pm 2^\circ$	0.40, 0.80 in.
Circular				
0.50%	VIS: 1 arc min NIR: 2 arc min	VIS: $\lambda/5$ NIR: $\lambda/2$	$\pm 2^\circ$	0.40, 0.70, 0.80, 1.20 in.
0.50%	3 arc min	$\lambda/5$	$\pm 2^\circ$	0.40, 0.80 in.

Polarizer and Retarder sets available, see page 42.