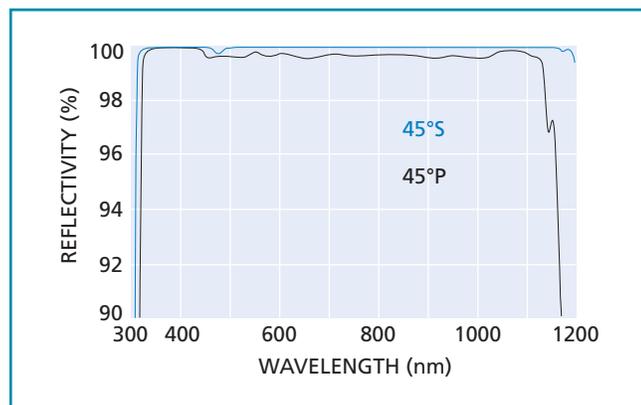


## Semrock 350-1100 nm MaxMirror® Ultrabroadband Mirrors

The Semrock 350-1100 nm MaxMirror® Ultrabroadband Mirror High-performance laser mirror that covers an exceptionally broad range of wavelengths, designed to replace three or more conventional laser mirrors. Highly reflecting over near-UV, all visible, and near-IR wavelengths. MaxMirrors simultaneously reflect all states of polarization and all angles of incidence from 0-50° inclusive.

- Confocal microscopy
- Multiphoton fluorescence
- Near UV, all visible, and near IR
- $R_{avg} > 98.0\%$  for all angles up to 45°
- Nd:YAG fundamental and harmonic wavelengths



Reflectivity vs wavelength of BBDM broadband VIS/NIR mirror

### SPECIFICATIONS: Semrock 350-1100 nm MaxMirror® Ultrabroadband Mirrors

<b>Substrate Material</b>	Fused Silica
<b>S1 Surface Figure</b>	0.1 waves/inch
<b>S1 Surface Quality</b>	10-5 scratch and dig
<b>S2 Surface Quality</b>	Commercial polish
<b>Diameter Tolerance</b>	+ 0/ - 0.10 mm
<b>Thickness Tolerance</b>	± 0.20 mm
<b>Coating Technology</b>	Sputtered
<b>Adhesion and Durability</b>	Per MIL-C-675C. Insoluble in lab solvents.
<b>Clear Aperture</b>	≥90% of central diameter
<b>Reflectivity</b>	45° $R_{avg} > 99.0\%$ for unpolarized 0-45° $R_{avg} > 99.0\%$ for unpolarized
<b>Damage Threshold</b>	Pulsed 1 J/cm <sup>2</sup> @ 355 nm (10 ns pulse width), 2 J/cm <sup>2</sup> @ 532 nm (10 ns pulse width), 6 J/cm <sup>2</sup> @ 1064 nm (10 ns pulse width)

*Pulse Dispersion: The MaxMirror will not introduce appreciable pulse broadening for most laser pulses that are > 1 picosecond  
 Pulse distortion is likely for significantly shorter laser pulses, including femtosecond pulses.*

From our Shelves to Your Lab –  
 Standard Products for Fast Delivery

### Semrock 350-1100 nm MaxMirror® Ultrabroadband Mirrors

Wavelength (nm)	$\phi$ (mm)	$t$ (mm)	PART NUMBER
350-1100	25.0	6.0	BBDM-PM-2506M-UV
350-1100	25.0	6.0	BBDM-PM-2506M-UV-10PACK
350-1100	25.4	6.0	BBDM-PM-1024-UV
350-1100	25.4	6.0	BBDM-PM-1024-UV-10PACK