



## Acton Optics Excimer Laser Mirrors and Coatings



Our high-power excimer laser mirrors are multi-layer dielectric coated mirrors designed for use with high-energy excimer lasers. These coatings have yielded superior high damage thresholds. We maintain a stock supply of these beam-turning and normal incidence mirrors for fast delivery to your facility. Mirrors and coatings on Acton mirror blanks or customer supplied material can be produced and supplied in volume, keeping the price very competitive. We can also provide you with "ready-to-install" optical assemblies utilizing our highly trained technicians and clean room facility.

**Applications:** Medical, Semiconductor, Micromachining, Materials Processing

**Standard substrate materials:** UV-Laser Grade Fused Silica

### Features

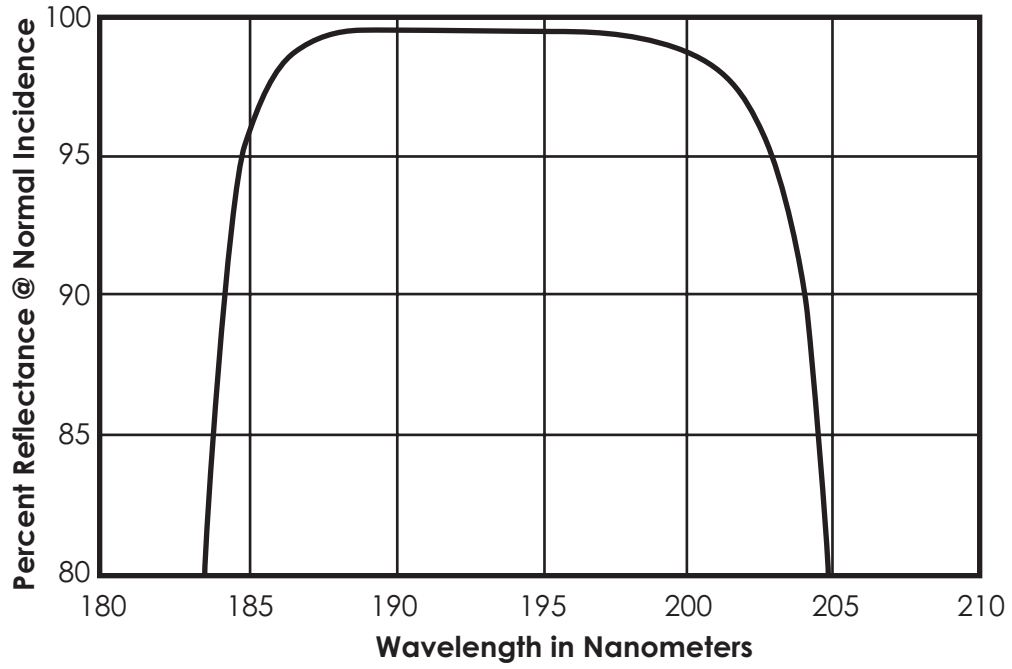
### Benefits

<b>High Performance</b>	Improves laser system throughput
<b>Outstanding Damage Resistance</b>	Improves system reliability
<b>High Durability Coatings</b>	Mirrors are easy to handle, clean and store
<b>Proven Reliability</b>	Reduces service requirements and cost of ownership

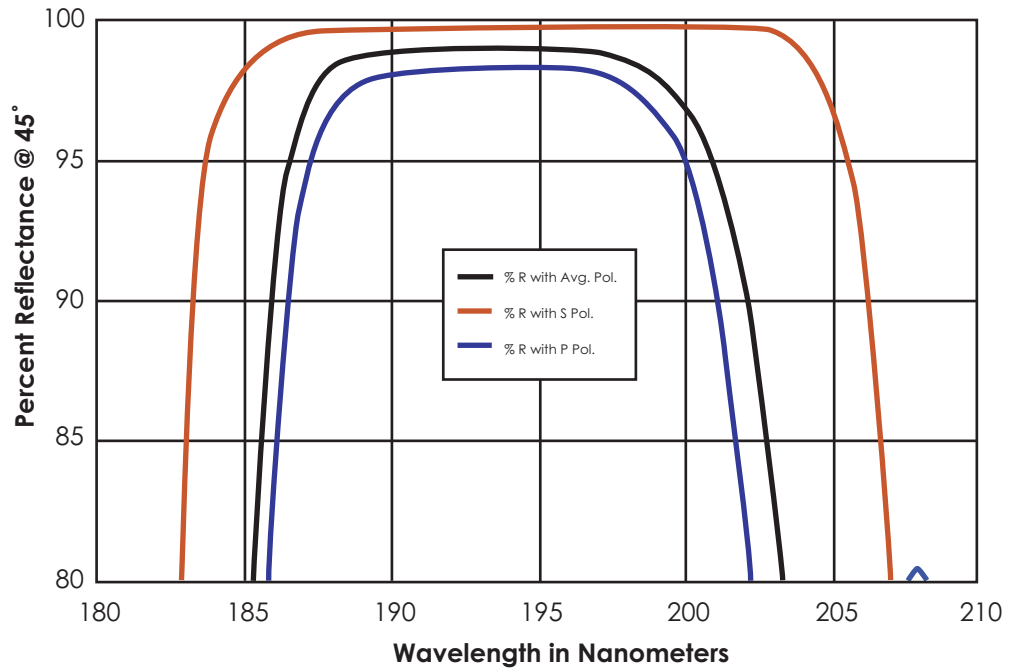
### Specifications

	193nm	248nm	308nm	353nm
<b>Typical reflectance</b>				
0° Incidence Angle	>/= 97%	>/= 98%	>/= 98%	>/= 99%
45° Incidence Angle	>/= 97%	>/= 97%	>/= 97%	>/= 98%
<b>Laser Damage Threshold</b>				
Rep Rate: </= 100 hz Tested with 15-20ns pulse duration on clean, uncontaminated coatings	1 - 2 J/cm <sup>2</sup>	4 - 7 J/cm <sup>2</sup>	4 - 7 J/cm <sup>2</sup>	4 - 7 J/cm <sup>2</sup>

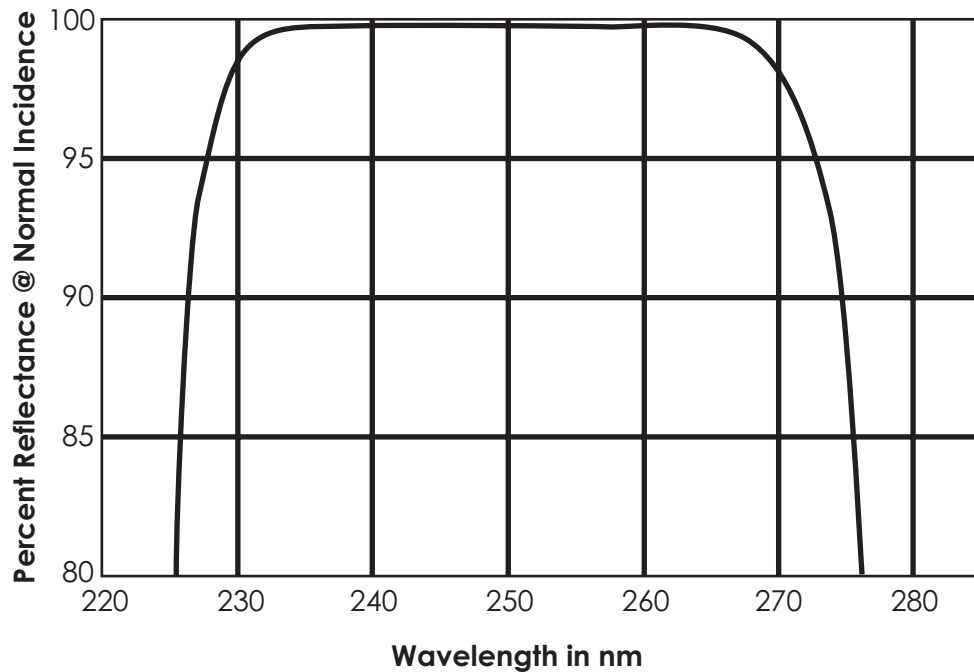
### 193nm Mirror Coating



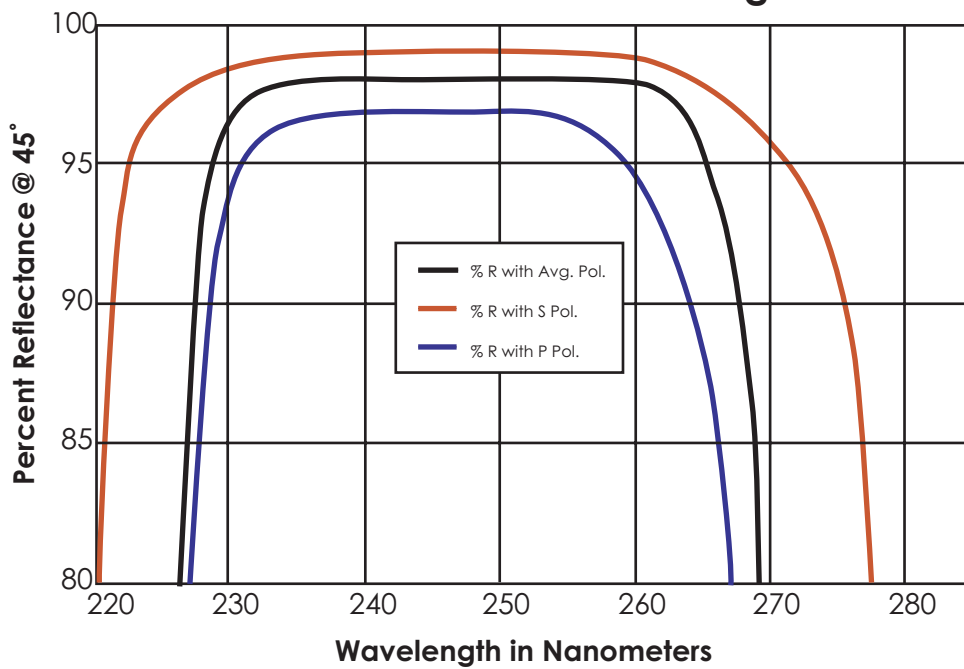
### 193nm 45° Mirror Coating



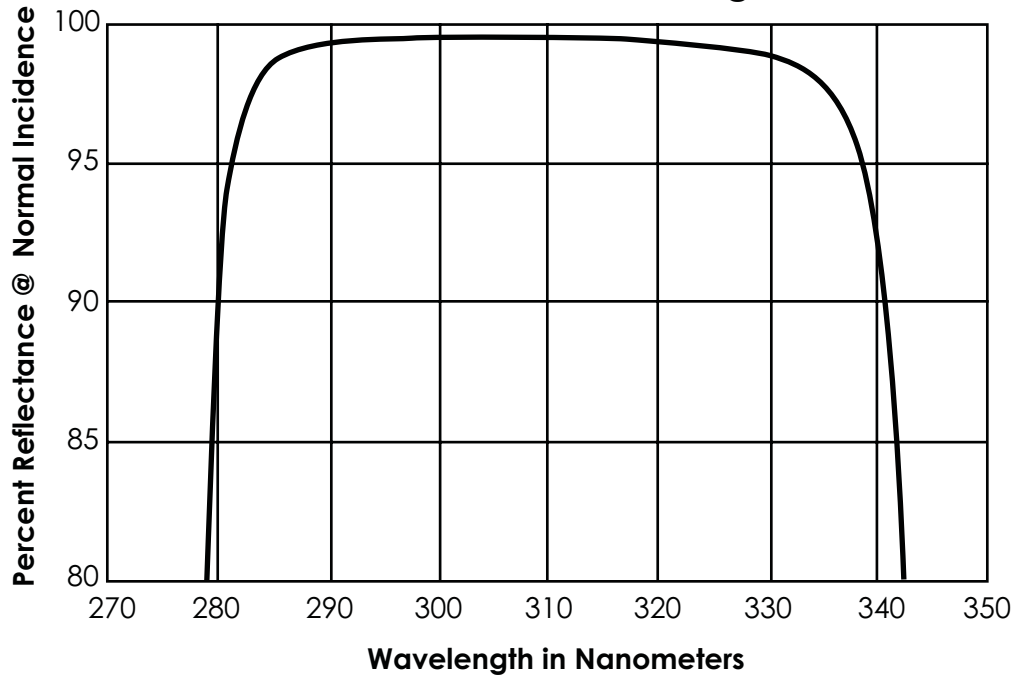
### 248nm Mirror Coating



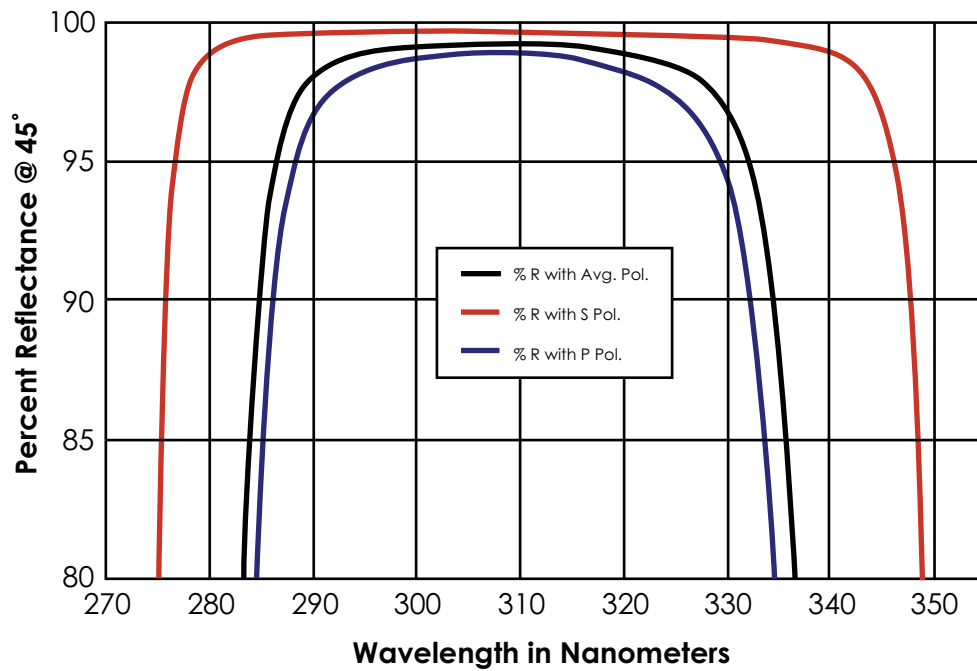
### 248nm 45° Mirror Coating



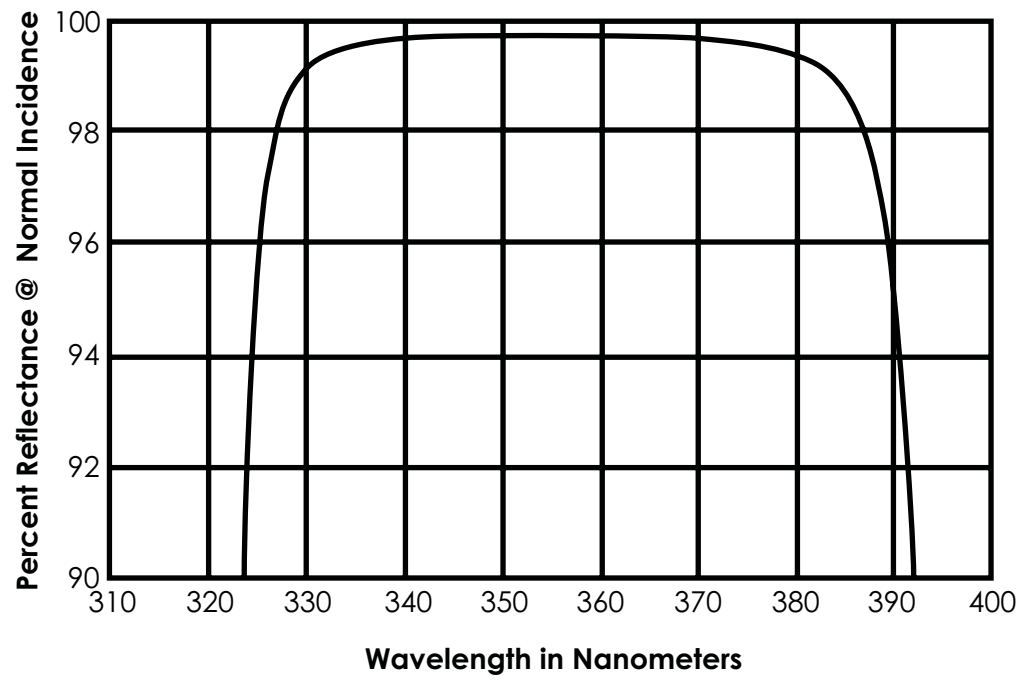
### 308nm Mirror Coating



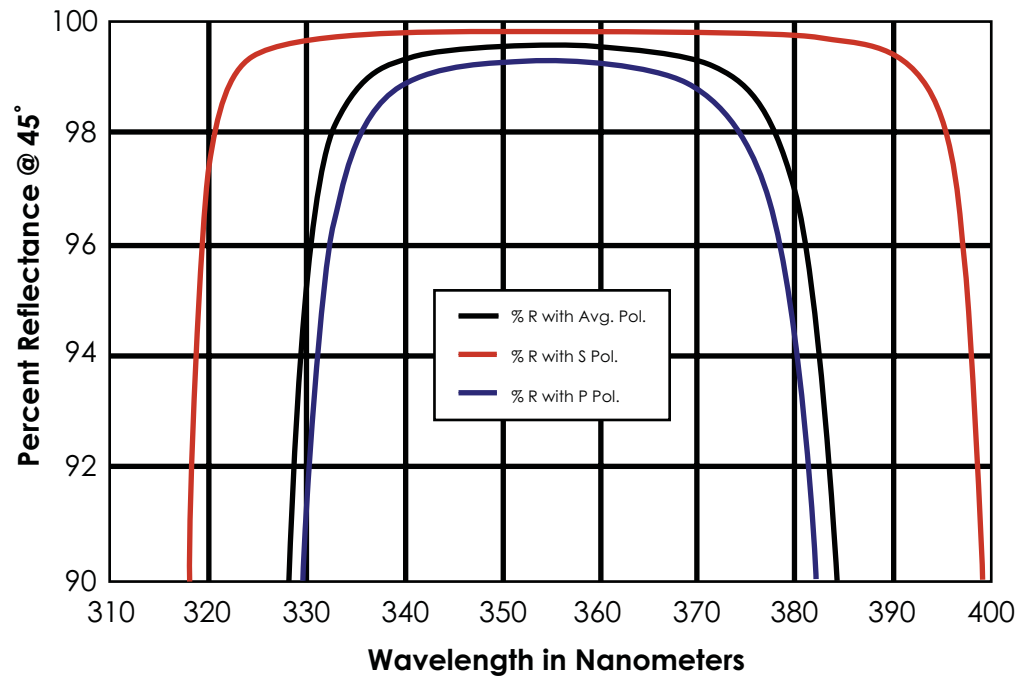
### 308nm 45° Mirror Coating



### 353nm Mirror Coating



### 353nm 45° Mirror Coating



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