



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

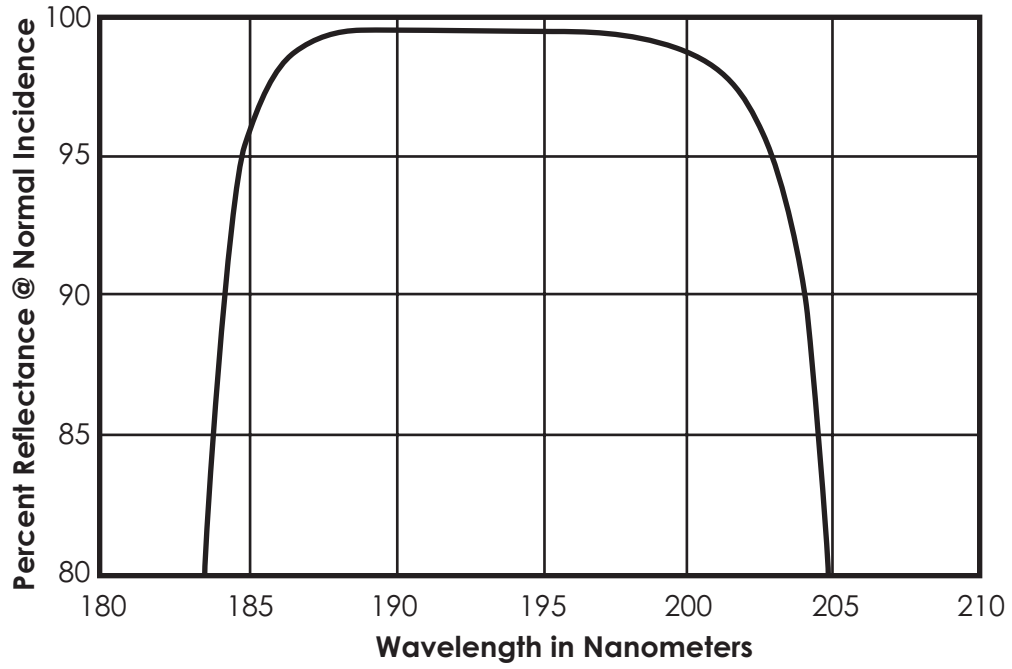
Benefits

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

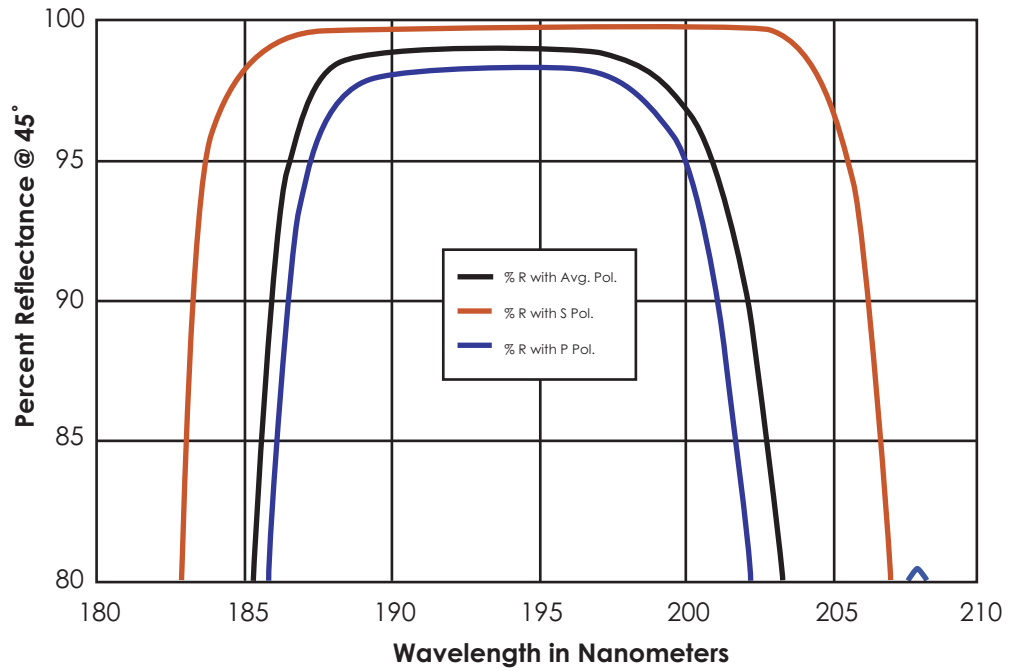
Specifications

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

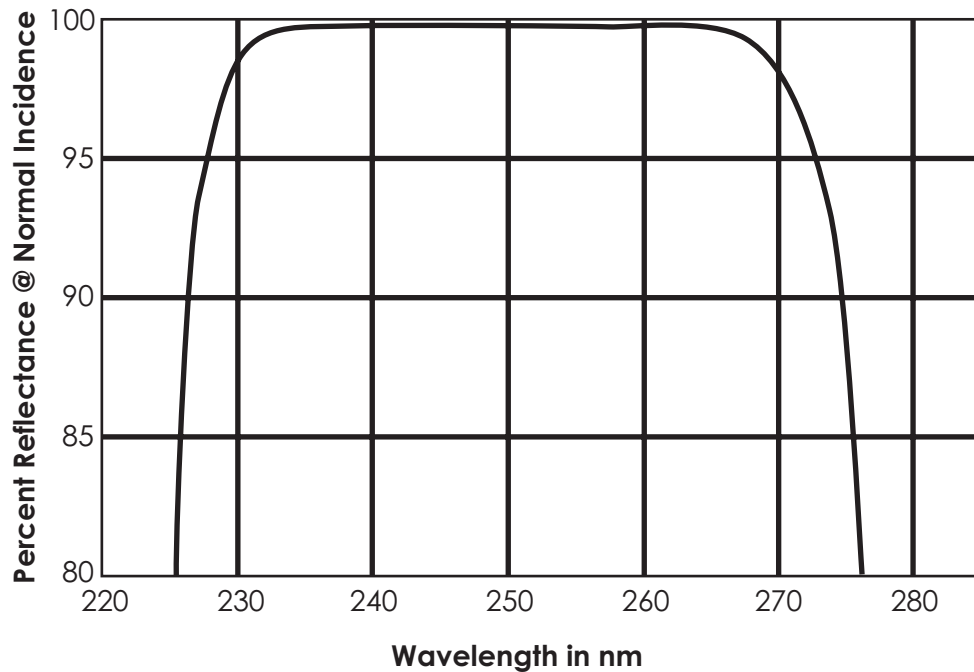
193nm Mirror Coating



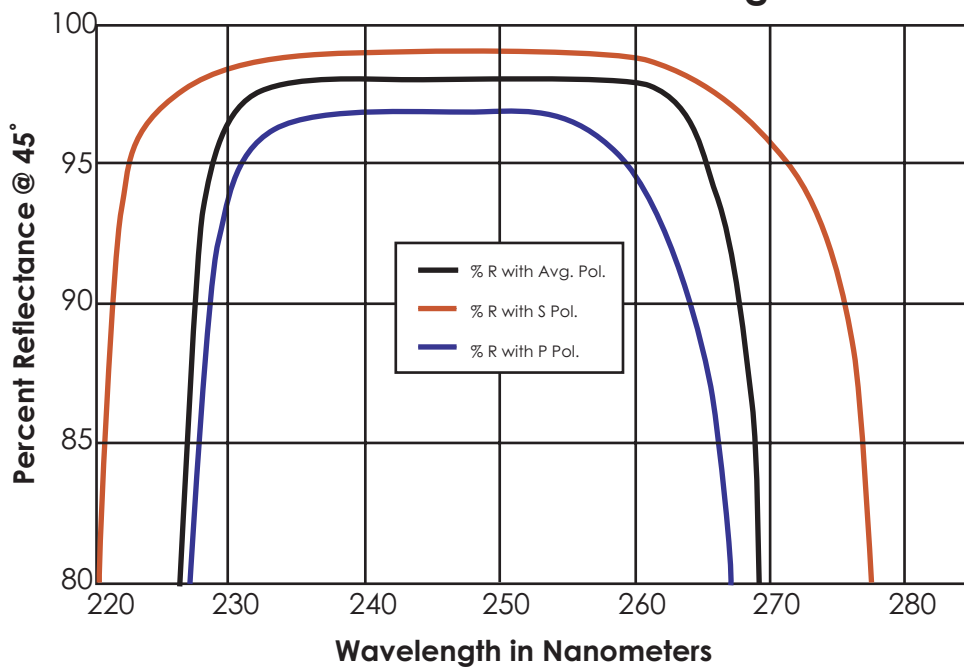
193nm 45° Mirror Coating



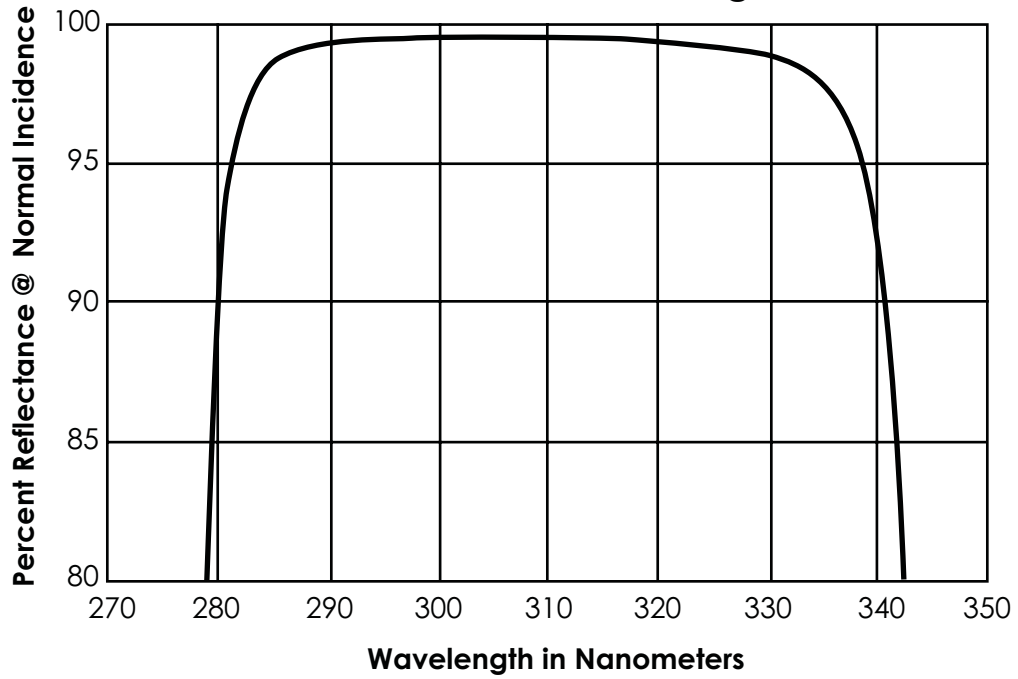
248nm Mirror Coating



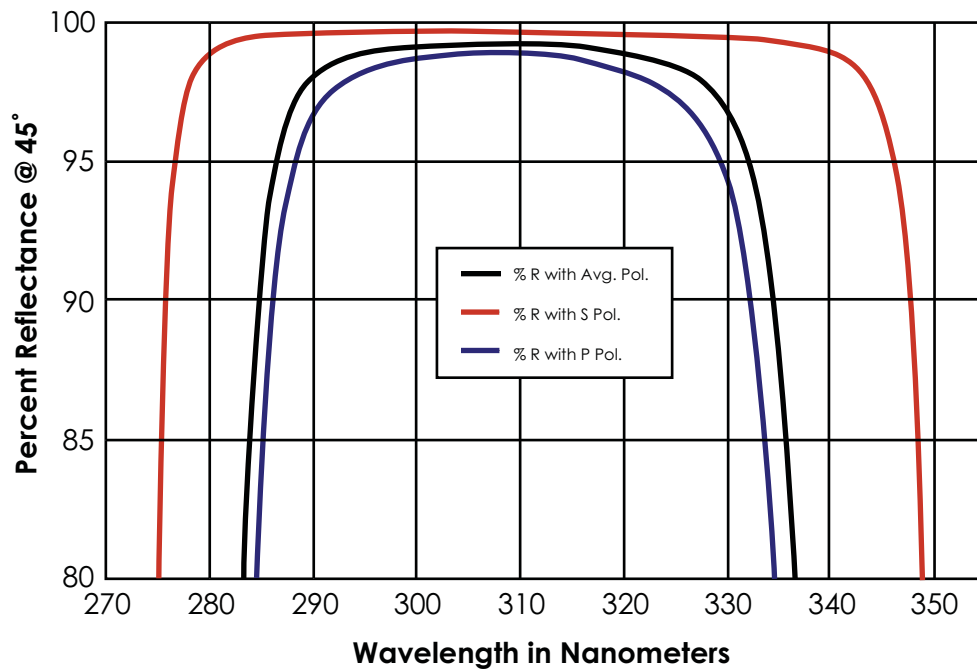
248nm 45° Mirror Coating



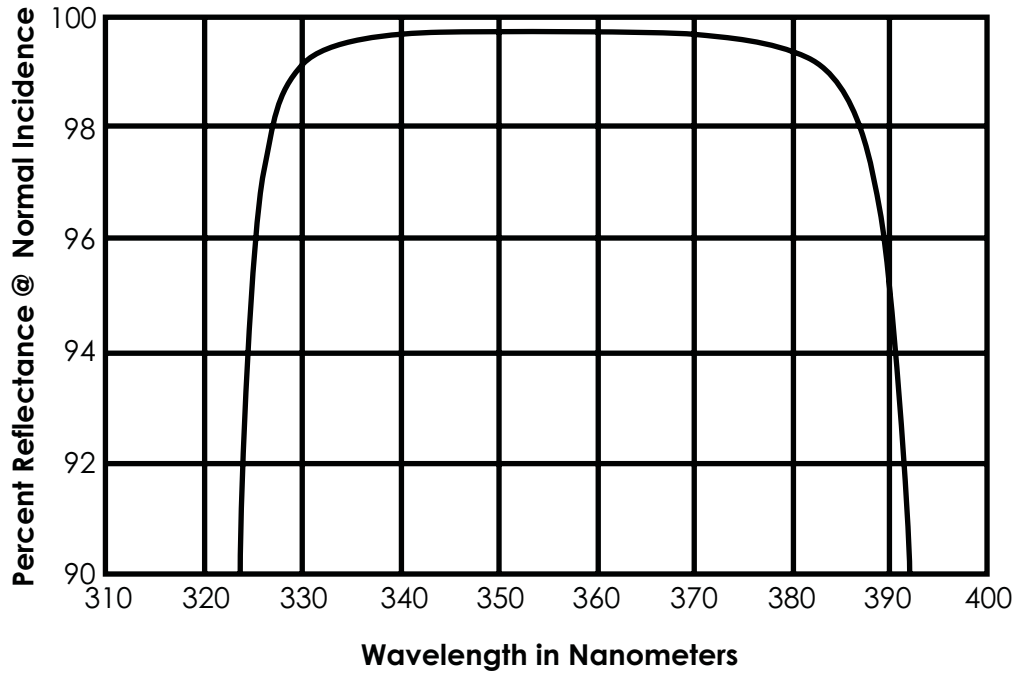
308nm Mirror Coating



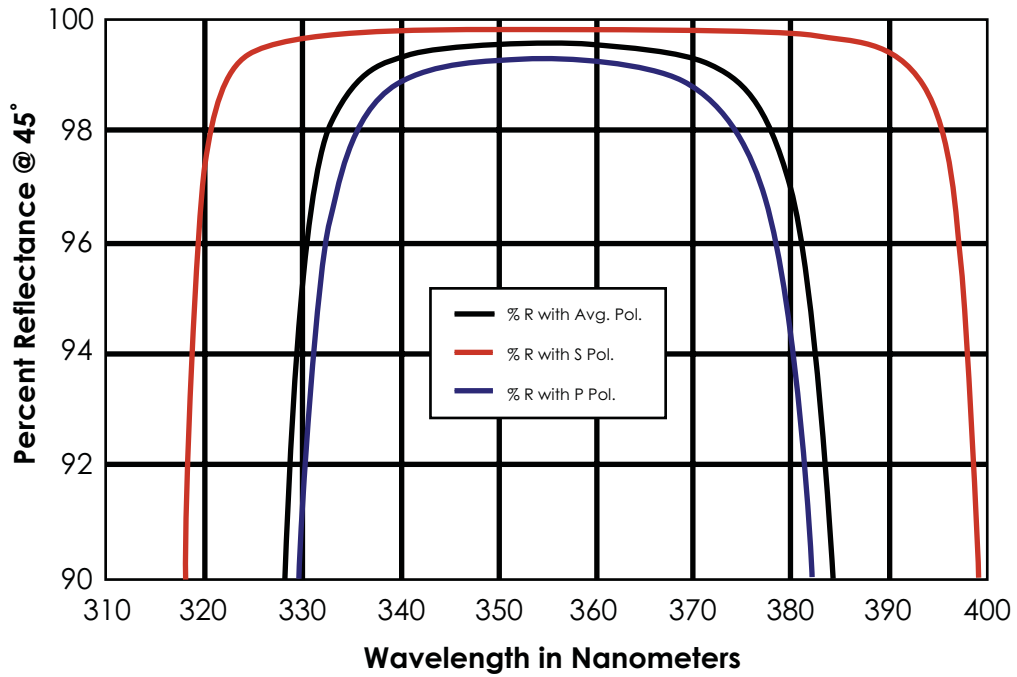
308nm 45° Mirror Coating



353nm Mirror Coating



353nm 45° Mirror Coating



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