



# Mirrors

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Features	Specifications	
Mirrors	Typical	Best
<b>Size</b>	5mm-4"	2mm-12"
<b>Surface Quality</b>	10-5	0-0
<b>Flatness (p-v)*</b>	$\lambda/10$	$\lambda/50$
<b>Roughness (RMS)</b>	2-3Å	< 1Å (superpolish)
<b>OD Tolerance</b>	+0.0/- 0.1mm	+0.0/- 0.25mm
<b>Thickness Tolerance</b>	± 0.05mm	± 0.01mm
<b>Clear Aperture</b>	85%	100%
<b>Wedge</b>	< 30 arcsec	< 1 arcsec
<b>Reflectivity</b>	> 99.9%	> 99.98%
<b>AOI</b>	0° or 45°	custom

**\* Before coating or after coating with Power removed. Contact us for information on stress compensated coatings.**

Perkins Precision Developments (PPD) manufactures high energy laser mirrors and precision optics for both prototype and volume OEM requirements. We also offer custom [Ion Beam Sputtered \(IBS\) thin film coatings](#) for visible to near-infrared wavelengths on customer supplied substrates. PPD utilizes IBS coating technology because it is ideal for complex spectral designs, high power lasers and applications where it is critical to minimize losses from absorption and scatter.

Typical mirror coatings include dielectric low-loss high reflectors (HR), multi-wavelength high reflectors, dichroic mirrors, trichroic mirrors, beam splitter mirrors, low phase shift mirrors, non-polarizing and dispersion controlled mirrors.

Our low overhead structure and production flexibility are designed to maximize both quality and value to our customers. Please [send us your requests](#) for custom thin film coatings, high power laser mirrors & other precision laser optics and optical assemblies.

➤ [PPD test plate library](#)

## About PPD

Perkins Precision Developments has a full range of shaping, grinding, polishing and coating equipment that allows us to produce a diverse mix of shapes and sizes of precision optical components and assemblies for a wide variety of applications.

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