

Dielectric Laser Mirror

Material	BK7 or UV grade Fused Silica
Dimension Tolerance	+0.0/-0.2mm
Thickness Tolerance	±0.2mm
Clear Aperture	>90%
Flatness	$\lambda/10@632.8\text{nm}$ for flat mirror, $\lambda/4@632.8\text{nm}$ for spherical mirror
Wedge	< 1 arc minute
Surface Quality	60/40 scratch and dig
Coating	Dielectric HR coating on one surface, R>99.5% for random polarization, rear surface uncoated
Damage threshold	>10J/cm ² , 20ns, 20Hz, @1064nm

Metal Coated Mirror

Material	BK7
Dimension Tolerance	+0.0/-0.2mm
Thickness Tolerance	±0.2mm
Clear Aperture	>90%
Flatness	$\lambda/10@632.8\text{nm}$ for flat mirror, $\lambda/4@632.8\text{nm}$ for spherical mirror
Wedge	< 1 arc minute
Surface Quality	60/40 scratch and dig
Coating	Metal coating on one surface, rear surface uncoated

Protected Aluminum Coating: Ravg>87%@400-1200nm

Protected Silver Coating: Ravg>95%@400-1200nm

Protected Gold Coating: Ravg>98%@2000-12000nm

Part Number	Coating	Flatness	Diameter(mm)	Thickness(mm)
MAL0125	AL Protected	$\lambda/5$	25.4	3.0
MAL0025	AL Protected	$\lambda/10$	25.4	6.35
MAG0125	AG Protected	$\lambda/5$	25.4	3.0
MAG0025	AG Protected	$\lambda/10$	25.4	6.35
MAU0125	AU Protected	$\lambda/5$	25.4	3.0
MAU0025	AU Protected	$\lambda/10$	25.4	6.35