

Typical cost drivers and tolerance limits for injection molded optics ≤ 25.4 mm diameter

Attribute	Low<-----Cost----->High	
Focal length (%)	± 5	± 2
Radius of Curvature (%)	$\pm 3-5$	$\pm 2-3$
Power (fringes)	10	5
Irregularity (fringes/10mm)	4	2
Scratch/Dig	80/50	60/40
Center thickness (mm)	± 0.1	± 0.05
Flange diameter (mm)	± 0.1	± 0.05
Concentricity (mm)	0.1	0.05
Center to edge thickness ratio	1:1	3:1
Surface roughness (\AA_{RMS})	>75	>60