



- STANDARD AND BEST TOLERANCES -

for reference only as PFG constantly strives to exceed customer expectations
NOTE: "Best" tolerances are typically cost drivers and may require longer delivery times

Diameters

Standard: ± 0.05 mm
Best: ± 0.010 mm for thick edge parts (5+ mm), $+0/-0.015$ for thin edges (<5mm)

Center Thickness

Standard: ± 0.1 mm
Best: ± 0.025 mm

Sags

Standard: ± 0.05 mm
Best: ± 0.010 mm

Clear Aperture (minimum)

Standard: 85%
Best: 0.5 mm or more from edge of finished lens

Radius (larger of the 2)

Standard: ± 8 fringes of $\pm 0.1\%$ of radius
Best: ± 1 fringe power or ± 0.003 mm

Irregularity at 633nm

Standard: 0.5 fringe from test plate reading or interferometers
Best: 0.2 fringe reading from interferometer only – 0.1 fringe possible, dependent on geometry

Lens Centering (larger of the 2)

Standard: 0.01 mm ETD or 1 arc-minute deviation
Best: 0.003 mm ETD or 10 arc-seconds deviation

Wedge Prism

Standard: ± 30 arc-seconds TIA
Best: ± 10 arc-seconds TIA

Bevels

Standard: 0.5 mm max. face
Best: 0.25 mm max. face possible, dependent on geometry

Scratch-Dig

Standard: 60-40
Best: 10-5 possible, major cost driver

Surface Roughness

Standard: 15 Angstroms
Best: 5 Angstroms possible, dependent on material type and geometry