

↳ **MANUFACTURING STANDARDS FOR INJECTION MOLDED  
HIGH PRECISION POLYMER OPTICS (UP TO 25MM IN DIAMETER).**

<b>PARAMETER</b>	<b>STANDARD</b>	<b>PRECISION</b>	<b>ULTRA PRECISION</b>
→ Polymer Quality (Nd)	± 0.001	± 0.001	± 0.001
→ Radius	± 3 – 5 %	± 2 – 3 %	± 0.5 – 1 %
→ Diameter (mm)	± 0.1	± 0.05	± 0.01
→ Center Thickness (mm)	± 0.1	± 0.05	± 0.001
→ Roughness Ra (nm)	7-15	7-10	5-7
→ Surface Finish (scratch/dig)	80 / 50	60 / 40	40 / 20
→ Freedom optics geometry (um)	20 – 50	5 – 20	1 – 5
→ Irregularities for 25 mm diameter max (fringes)	6 – 10	4 – 6	2 – 4
→ Centering (arc min)	± 3	± 2	± 1