

MANUFACTURING STANDARDS FOR DIAMOND TURNED HIGH PRECISION POLYMER OPTICS (UP TO 25MM IN DIAMETER).

| PARAMETER | STANDARD | PRECISION | ULTRA PRECISION |
|---|-------------------|-------------------|-------------------|
| → Polymer Quality (Nd) | ±0.01 | ±0.001 | ± 0.001 |
| → Radius | ± 0.5 % | ± 0.1 % | ± 0.05 % |
| → Diameter (mm) | + 0.000 / - 0.050 | + 0.000 / - 0.025 | + 0.000 / - 0.010 |
| → Roughness Ra (nm) | 7-10 | 4-7 | 3-4 |
| → Surface Finish (scratch/dig) | 80/50 | 60/40 | 40/20 |
| → Freedom optics geometry (um) | 10-15 | 5-10 | 2-5 |
| → Irregularities for 25 mm diameter max (fringes) | 1 | 0.5 | 0.25 |
| → Centering (arc min) | 2 | 1 | 0.5 |