

Plastic Optics

Accuracy Classes

	Low Cost Quality	Standard Quality	State of the Art
Focal length	+/-3.... 5%	+/-2.... 3%	+/-0.5.... 1%
Radius of curvature	+/-3.... 5%	+/-2.... 3%	+/-0.5.... 1%
Irregularity (D = 25mm diameter)	6....10 Rings	2....6 Rings	0.5....2 rings
Form error (asymmetric plane)	20....50µm	5...20µm	0.5...5µm
Surface (scratch/dig)	80 / 50	60 / 40	40 / 20
roughness R_a	10...15nm	5..10nm	2...5nm
Centering accuracy	+/-3 min	+/- 2min	+/- 1min
Center thickness	+/- 0.1 mm	+/- 0.05mm	+/- 0.01mm
Diameter	+/- 0.1 mm	+/- 0.05mm	+/- 0.01mm