

# Ball Lenses

## Product Information

Polished ball lenses are produced by a mechanical machining process. Due to the high flexibility of the process the ball lenses are increasingly used as pre-forms for the precision molding process. The surface and geometry of each ball lens has an optical quality and can therefore also be used as an optical element.

## Supply Forms

- Balls
- Hemispheres

## Advantages

- Low Scratch-Dig
- Low Roughness
- Wide range of optical materials

## Applications

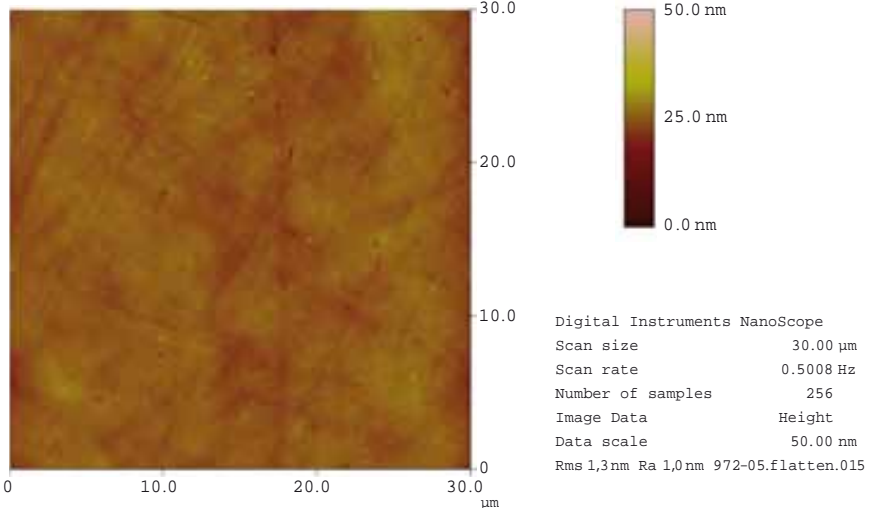
- Optical Lens Element
- Pre-form for Precision Molding

## Materials

- Low Tg glasses
- High refractive index glasses
- Optical and colored glasses
- Technical and special glasses



## Surface Measurement Report



## Specifications

Description	Standard Quality	Premium Quality
Diameter Tolerance	± 0.003 mm	± 0.001 mm
Surface Polish (Ra Value)	1 – 2 nm	1 – 1.2 nm
Roundness Tolerance	< 0.001 mm	< 0.001 mm
Surface Quality	No scratch; Dig at 20 x magnification	No scratch; Dig at 30 x magnification
Cleanliness	Class 100	Class 100
Packing	Clean Glass Vials Anti-Static Plastic Vials	Waffle Types Plastic Trays

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 glass made of ideas