

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

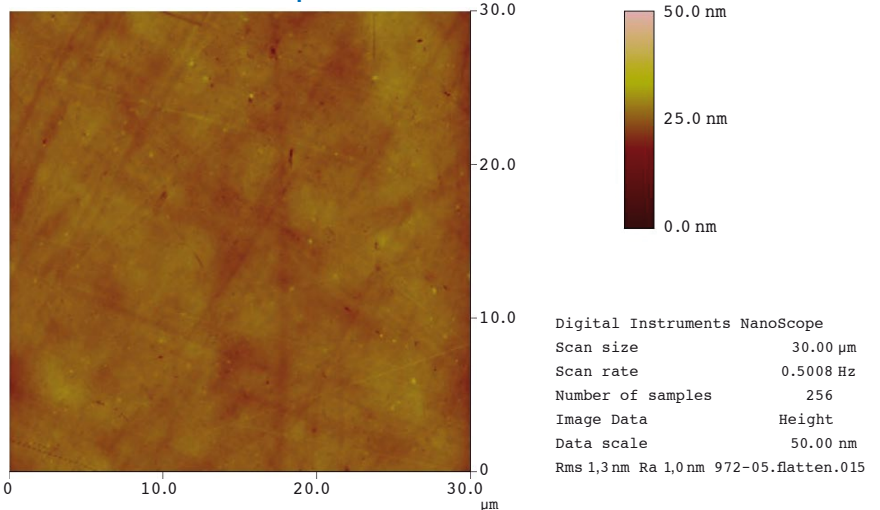
- Optical Lens Element
- Pre-form for Precision Molding

Materials

- Low Tg glass from SCHOTT
- High refractive index glass LASF35 (nd = 2.02204/vd = 29.06)
- Optical and colored glass from SCHOTT
- Technical and special glass from SCHOTT



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

For more information please contact:

Advanced Optics
SCHOTT AG
 Hattenbergstrasse 10
 55122 Mainz
 Germany

Phone: +49 (0)6131/66-1812
 Fax: +49 (0)3641/2888-9047
 info.optics@schott.com
 www.schott.com/advanced_optics

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