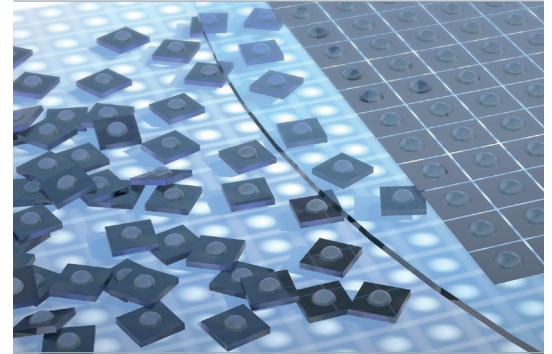




Antireflective Coating for Polymer Lenses

Antireflective Coating for imprinted molded Micro Lenses

Materion Balzers Optics has developed highly efficient and environmentally stable multilayer AR coatings dedicated for deposition on UV curable polymers used for lens replication in Wafer Level Optics manufacturing. The multilayer AR designs are optimized for the near infrared and visible range and are partially transparent in UV range to facilitate curing under UV light. All our AR coatings for UV curable polymers have been extensively tested for their environmental stability and durability.



Benefits

- Highly efficient Wafer Level Optics due to elimination of reflected light
- Extensively tested for Consumer Applications

Applications

- Wafer Level Cameras for Mobile Devices and Automotive
- 3D Dot Illuminators
- Microlens Arrays
- Waveguides for Near Eye Displays

Technical Data

Spectral Specifications NIR

Rabs < 0,5%, 910–980 nm, AOI = 0–20°

Spectral Specifications VIS

Rabs < 1,0%, 420–680 nm, AOI = 0–20°

Supported UV-curable polymers

Contact us to learn more about the currently supported types of resins

Substrate Dimensions

Wafers 150x150 mm or ø150 mm, ø200 mm

Environmental Tests

Temp. Cycling -40 °C...+85 °C

Temp. & Hum. Cycling -20°...+65 °C / 90% r.H.

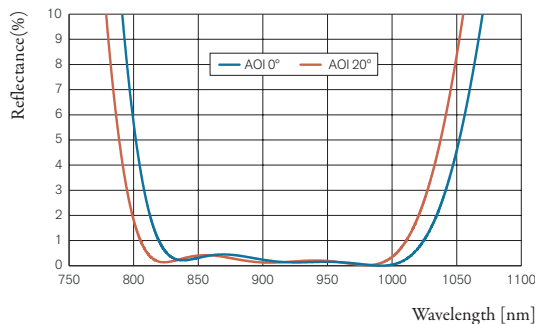
High Temp. Soak +85 °C / 85% r.H.

Heat Soak +65 °C / 90% r.H.

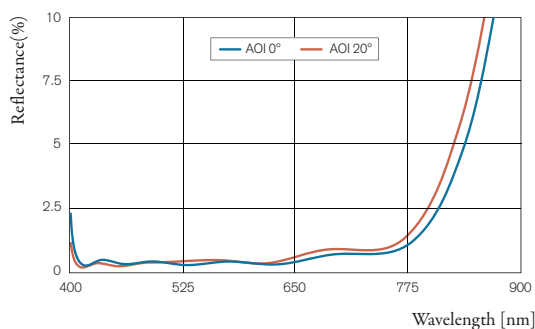
Cosmetic Specifications

Scratch / Dig 40/20 (MIL-PRF-13830B)

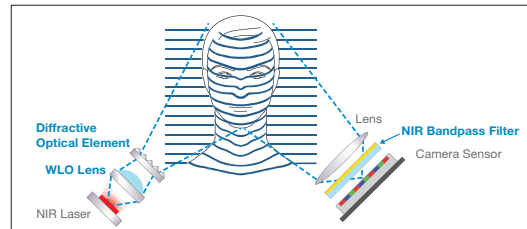
Antireflective Coating NIR – Air Side Reflection



Antireflective Coating VIS – Air Side Reflection



Structured-Light



Facial Recognition



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