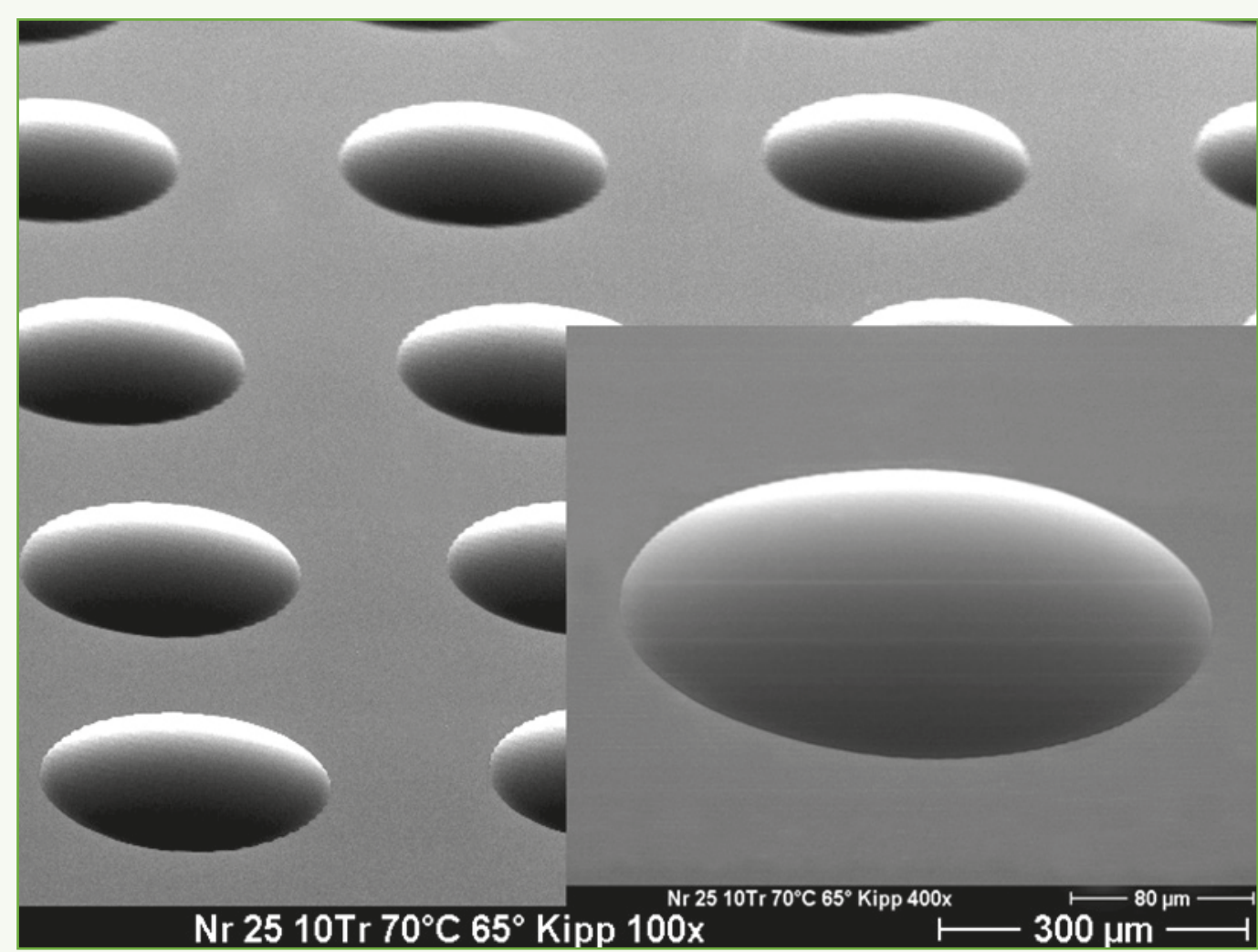
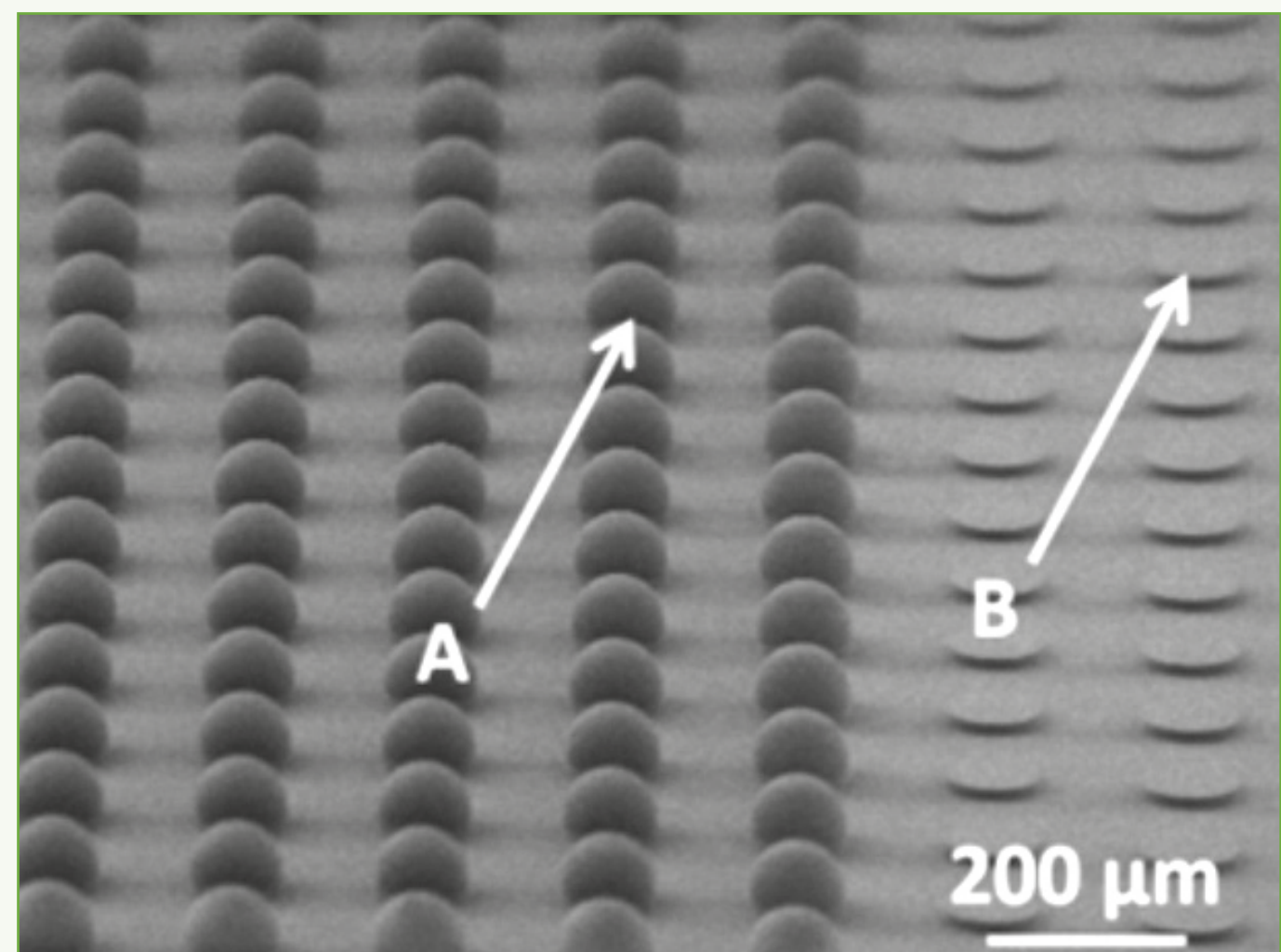


InkEpo

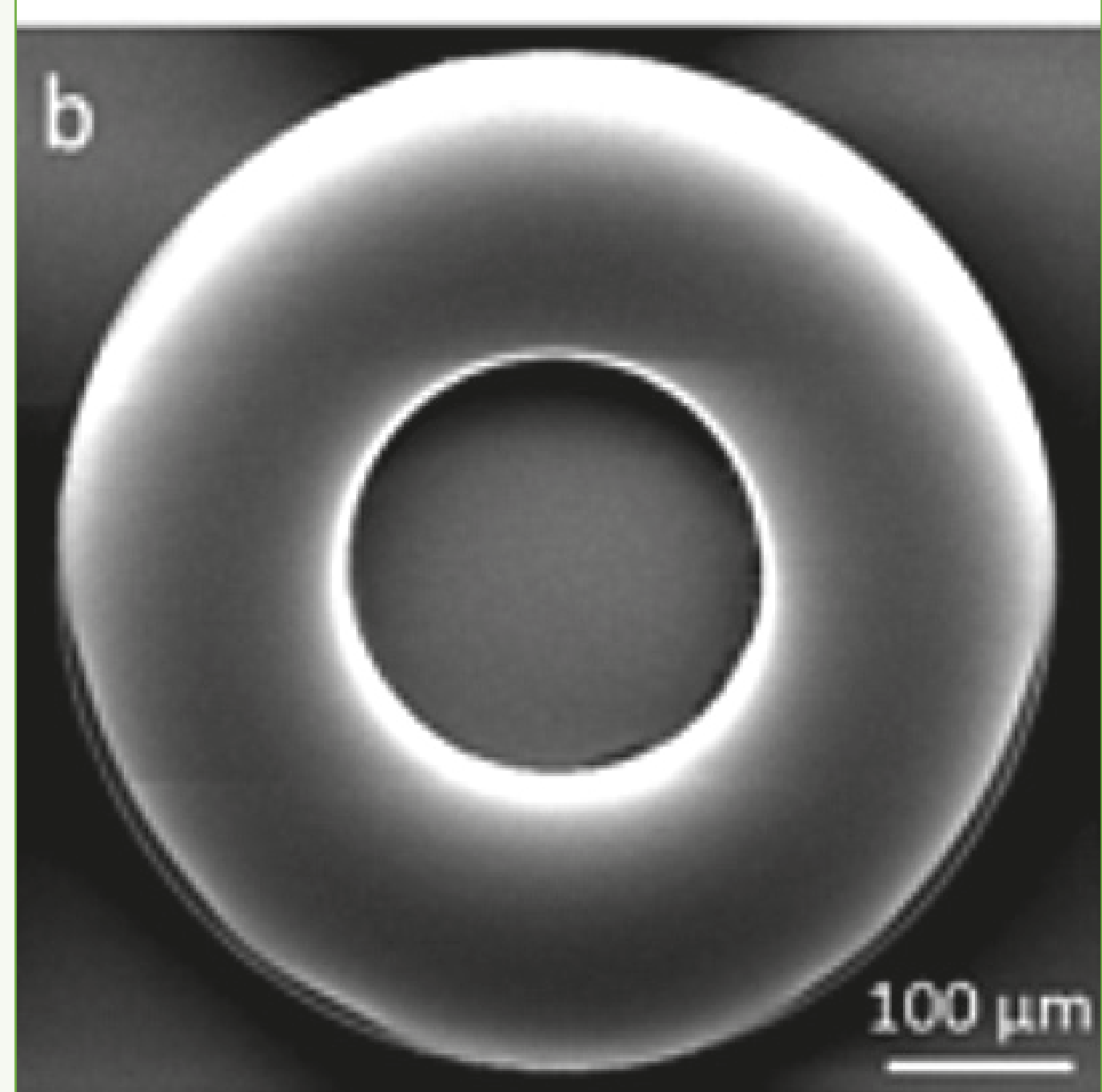
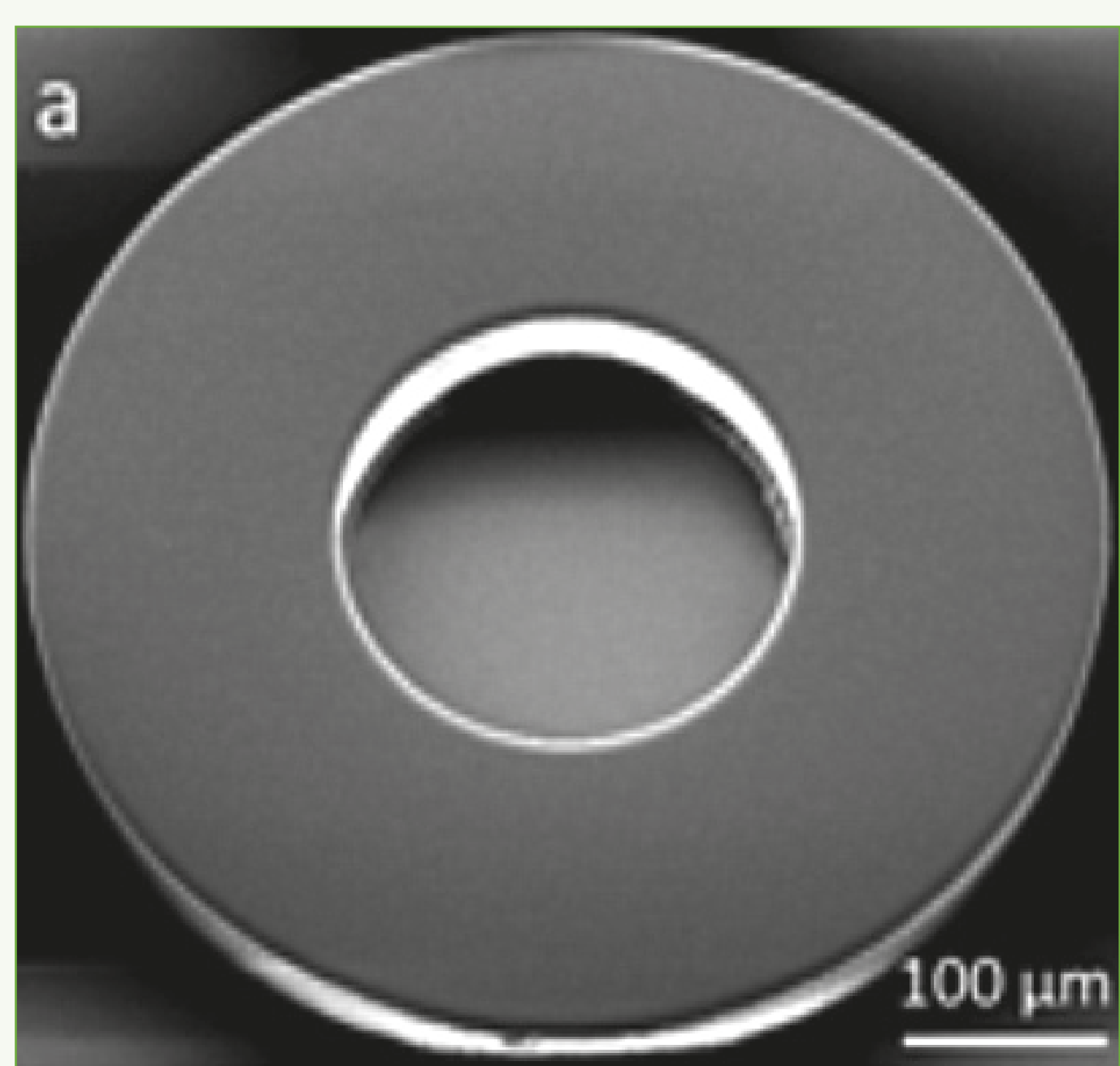
UV curable material for inkjet-printing



InkEpo lens arrays \varnothing 210 μ m
 (10 drops per lens)



Array of InkEpo micro lenses on
 100 μ m wide Si platforms (A)
 lenses on a platform, (B) empty
 platforms



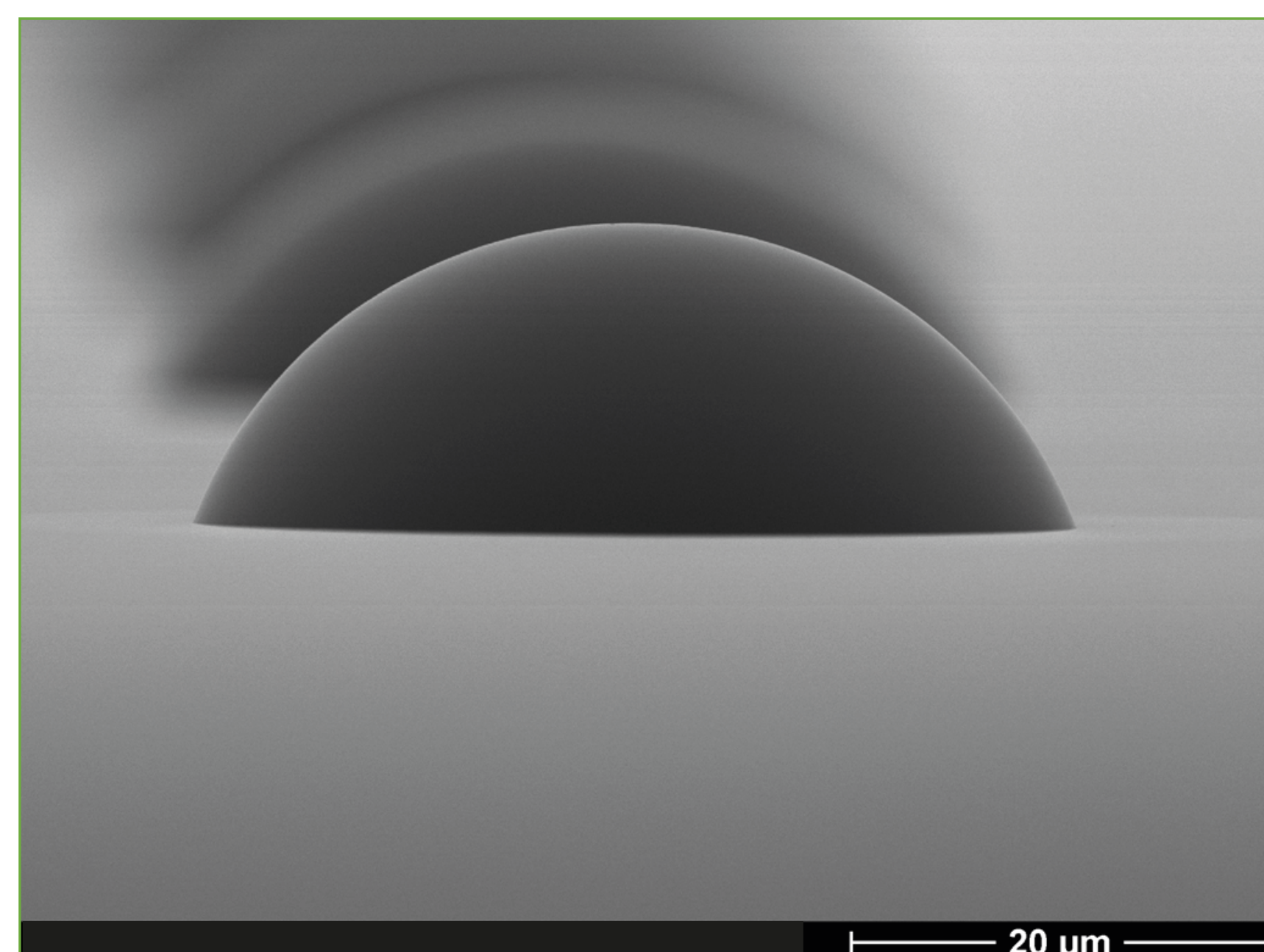
(a) SU-8 platform with an annular
 shape, (b) corresponding toric
 micro lens after local deposition of
 InkEpo

Unique features

- UV-curable ink solutions
- Low viscosity
- Compatible to standard inkjet-printing devices
- Excellent thermal, mechanical and chemical stability of cured patterns
- High transparency to near UV and visible light

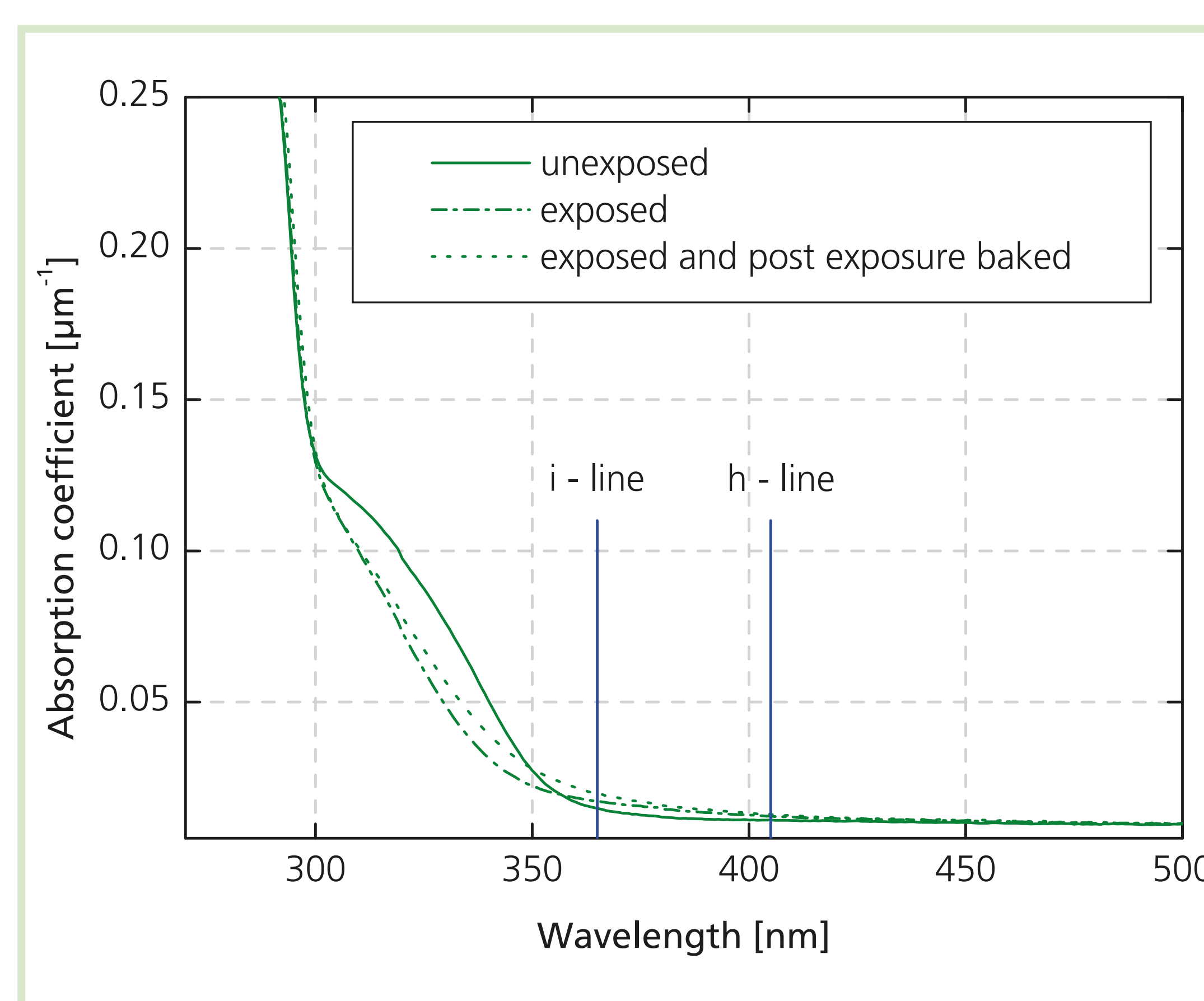
Physical data – Ink solution

Ink series	Dyn. Viscosity [mPa s] @ 25 °C
InkEpo_5 mPas	5.0 \pm 0.3
InkEpo_8 mPas	8.0 \pm 0.5
InkEpo_12 mPas	12 \pm 1
InkEpo_25 mPas	25 \pm 1



InkEpo lens with \varnothing 45 μ m
 on surface-treated substrate

Optical properties – cured material



Applications

- Single micro-lenses and micro-lens arrays
- Waveguides and microfluidic devices
- Spacers and protecting layers
- Glue for bonding applications
- Large-area substrate processing

Process flow

