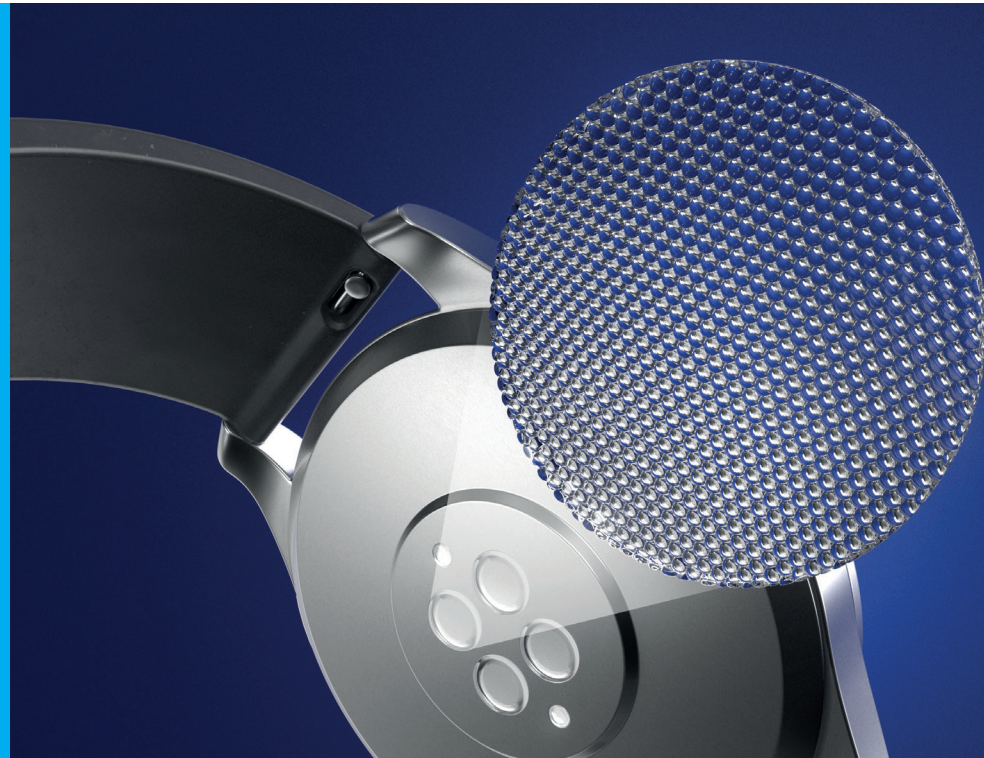
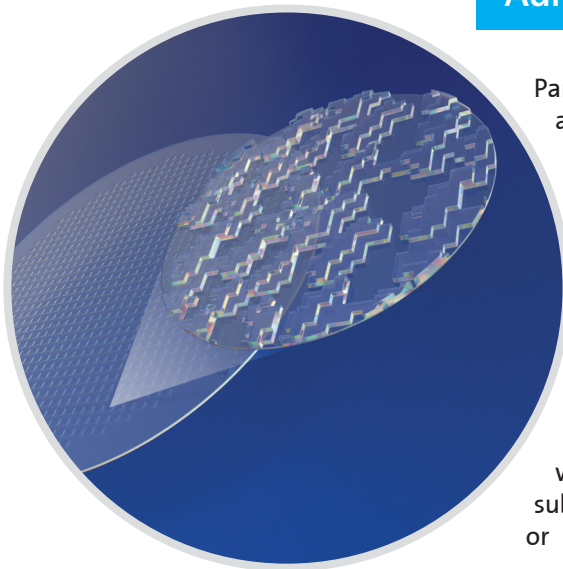


Optical Grade Adhesives



Adhesives for Imprint and Optical Bonding Applications



Panacol's specially formulated adhesives for imprint replication of refractive lenses and diffractive optical elements (DOEs) are suitable for micro- and nano-imprint lithography, wafer level optics, and wafer bonding. These adhesives can be easily applied via puddle dispensing, spin-coating or jetting. They offer excellent adhesion to commonly used grades of glass wafers and upcoming new polymer substrates including optical grade PET or PC. Once applied and imprinted,

they are quickly cured with UV light, creating a precise and durable structure on the wafer.

For optical bonding and alignment, Panacol developed UV curable adhesives that feature high adhesion to glass and widely used plastic substrates.

Once cured, all our adhesives for optical bonding are flexible and tension equalizing, reducing the stress on dissimilar substrates.

UV curable transparent and black resins



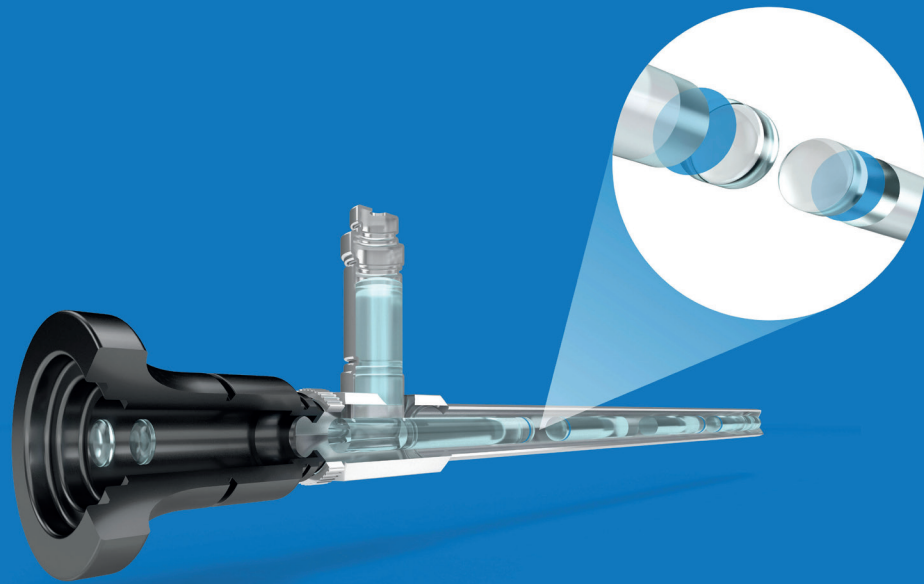
Optically clear resins with low yellowing



Optical grade adhesives with low shrinkage



Optical Grade Adhesives



Adhesive	Viscosity [mPas] <small>(Rheometer, 25°C, 10s⁻¹)</small>	Curing	Description
Vitralit® UC 1632	80-100 (Brookfield)	UV	Suitable for nano imprint of DOEs and diffusors
Vitralit® UC 1633	170-230	UV	Suitable for nano imprint, best in class yellowing stability
Vitralit® UC 1658	75-200 (Brookfield)	UV	Suitable for nano imprint on polymer substrates, highly flexible, low Antimony content
Vitralit® BL UC 1103	3,500-7,000	UV	Deep black color with pure UV curing, black shading and masking, direct imprint of black spacer wafers
Vitralit® 1860	5,000-8,000	UV	Suitable for optical bonding and active alignment
Vitralit® 7311	40-70	UV	Suitable for optical bonding, excellent plastics adhesion, biocompatible (USP Class VI), tension equalizing
Vitralit® VBB-60	3,500-5,000	UV	Suitable for optical bonding, highly tension equalizing
Structalit® 5511 Structalit® 5531	800-1,200 5,000-10,000	Thermal	Suitable for optical bonding of light-blocking substrates, fast curing at low temperature (60°C), excellent plastics adhesion

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