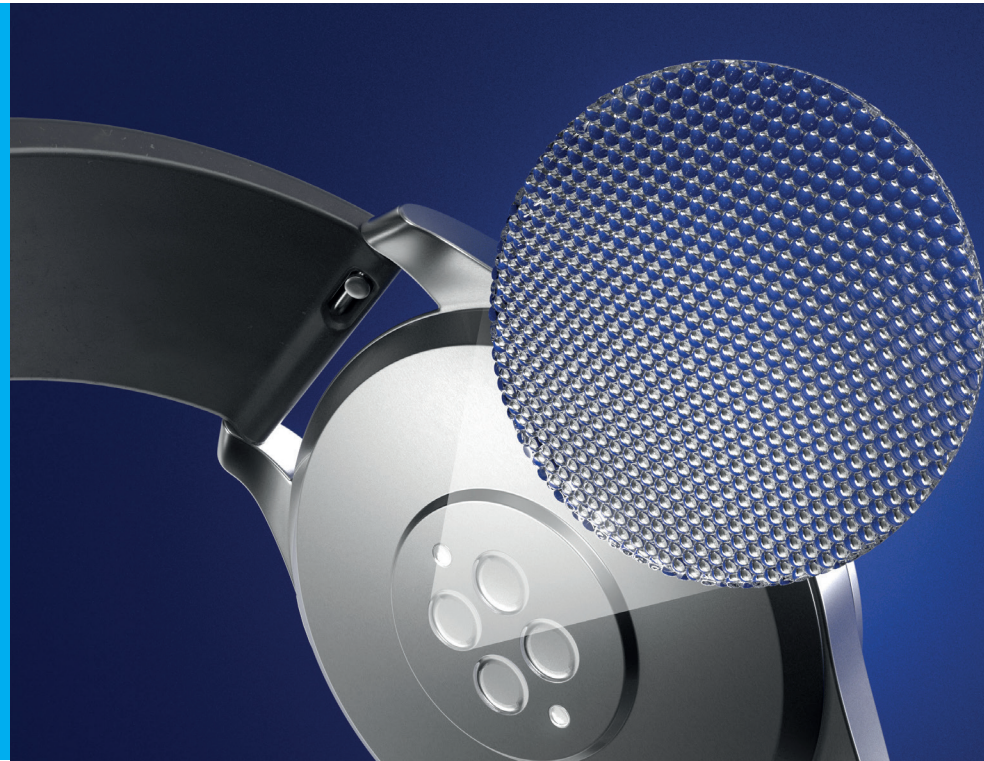
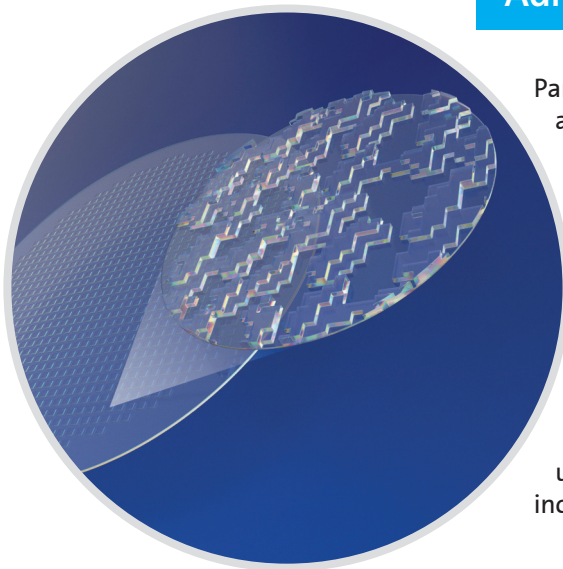


Optical Grade Adhesives



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



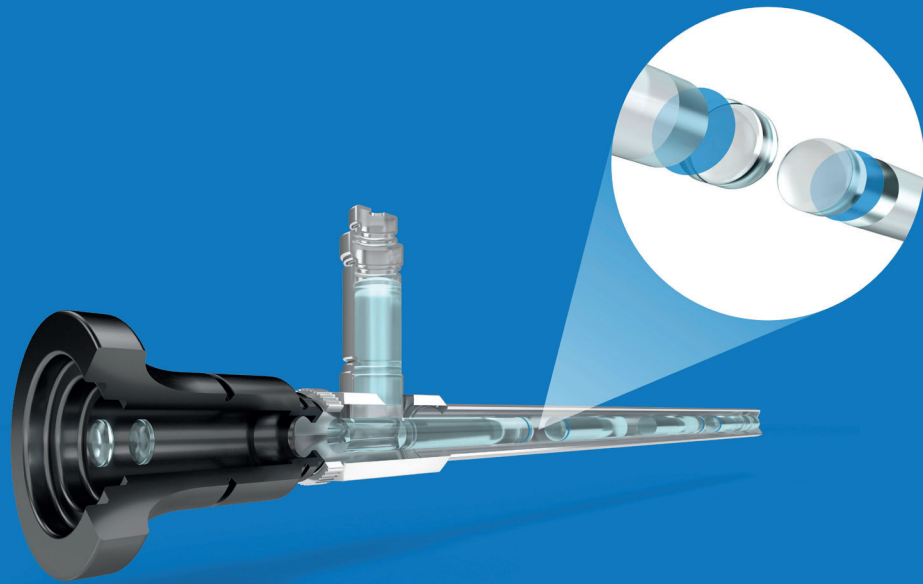
Optically clear
resins with low
yellowing



Optical grade
adhesives with
low shrinkage



Optical Grade Adhesives



Adhesive	Viscosity [mPas] (Rheometer, 25°C, 10s ⁻¹)	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
Structalut® 5511 Structalut® 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

Contact us



Panacol-Elosol GmbH
Stierstädter Straße 4
61449 Steinbach
GERMANY
Phone: +49 6171 6202-0
info@panacol.de
www.panacol.com

Eleco Panacol – EFD
125, av Louis Roche
Z.A. des Basses Noëls
92238 Gennevilliers Cedex
FRANCE
Phone: +33 1 47 92 41 80
eleco@eleco-panacol.fr
www.eleco-panacol.fr

Dr. Hönle AG UV Technology
Nicolaus-Otto-Straße 2
82205 Gilching
GERMANY
Phone: +49 8105 2083-0
uv@hoenle.de
www.hoenle.com

Panacol-Korea Co., Ltd.
#707, Kranz Techno
388 Dunchon-daero
Junwon-gu, Seongnam
Gyeonggi-do, 13403 KOREA
Phone: +82 31 749 1701
moon@panacol-korea.com
www.panacol-korea.com

Panacol-USA, Inc.
142 Industrial Lane
Torrington CT 06790
USA
Phone: +1 860 738 7449
info@panacol-usa.com
www.panacol-usa.com

Hoenle UV Technology Trading (Shanghai) Co., Ltd
Room 821, No. 800
Cimic Building Pudong
Shanghai 200120, CHINA
Phone: +86 21 64 73 02 00
info@hoenle.cn
www.panacol.cn