MOMENTIVE

INVISISIL™ Silicone Solutions for Optical Bonding



Momentive is a pioneer in developing solutions for silicone optical bonding, with a portfolio of proven materials that are in wide use around the world. Momentive offers a wide range of off-the-shelf solutions to help deliver design flexibility and long-term reliability to components operating under harsh conditions.

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Key Features

- High transmittance
- Low cure shrinkage
- Good elasticity
- High stability, low modulus

Typical Benefits

- Optical clarity
- Stability/low modulus to help avoid Mura effect
- CTE mismatch relief
- Outgas permeability for use on plastics
- Wide working temperature range

Potential Applications

- Displays for high ambient light
 environments
- Automotive, consumer, and industrial electronics
- Heavy-duty displays and touchscreens
- Direct view technologies

Optical Bonding Materials

LOCA Material Portfolio											
Product	System	Mix Ratio [by weight]	Viscosity [Pas]	Penetration [1/10mm]	Transparency	Cure Condition	Feature				
OP1012	AC	1 to 1	0.8	65	>99 %	30min at 70°C	Thermal cure and high elongation				
SN1001	AC	1 to 1	1.0	40	>99 %	Gel Time 18min or 30min at 60°C	Excellent adhesion, fast cure at RT				
SN3001	AC	1 to 1	1.0	40	>99 %	Gel Time 30min or 30min at 60°C	Excellent adhesion				
SN3003HR	AC	1 to 1	3.3	58	>99 %	Gel Time 40min or 30min at 60°C	Excellent adhesion; HRI 1.51				
SN4591	AC	1 to 1	0.1	23	>99 %	Gel Time 45min or 30min at 60°C	Very low viscosity, excellent adhesion; suitable for injection process				
XE13-OP007	AC/UV	1P	2.5	35	>99 %	UV 365nm LED, >1000mJ/cm ²	UV cure, preactivated with shadow-cure capability, good adhesion				
XE14-D0059	AC/UV	1 to 1	7.0	35	>99 %	UV 365nm LED, >1000mJ/cm ²	UV cure, preactivated with shadow-cure capability, good adhesion				
OP1822	AC/UV	1 to 1	46	20	>99 %	UV 365nm LED, >1000mJ/cm ²	High viscosity stencil printable, good adhesion				

DAM Material Portfolio											
Product	System	Mix Ratio [by weight]	, and a set of the set	Penetration [1/10mm] / Hardness	Color	Cure Condition	Feature				
OP1912	AC	1 to 1	89	58	Translucent	30min at 60°C	Stress absorbing thixotropic gel				
OP1922	AC/UV	1 to 1	66	45	Black	UV 365nm LED, >3000mJ/cm ²	Black thixotropic gel				
OP2922	AC/UV	10 to 1	50	50 shore 00	Translucent	UV 365nm LED, >4000mJ/cm²	Thixotropic gel, higher hardness				

Typical properties are average data and are not to be used as or to develop specifications

1P = One Part

AC = Addition Cure

HRI = High Refractive Index

RT = Room Temperature LOCA = Liquid Optically Clear Adhesive

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For more information and sampling inquiries. please visit momentive.com/CustomerService

Patent Status

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