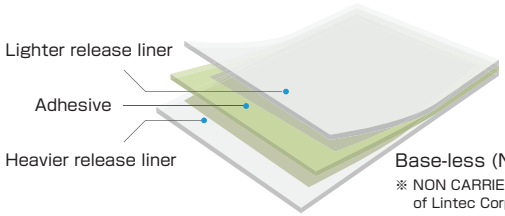
Opteria

OCA for Direct Bonding

Optical Clear Adhesive Sheet (OCA) MO series

With its gap-filling ability and blister resistance, OCA* for direct bonding is ideal for bonding a variety of cover panels, sensor materials, and optical films.
*OCA:Optical Clear Adhesive

Composition

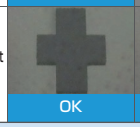
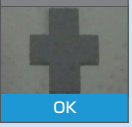


Base-less (NON CARRIER) type
※ NON CARRIER is a registered trademark of Lintec Corporation in Japan.

- High adhesion against various materials
- Delay bubble resistance
- Liquid crystal unevenness resistance
- Adaptable to UV-abrorving materials such as plastic panels (ex. PMMA,PC etc)

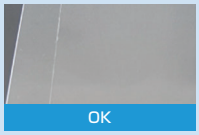
Features

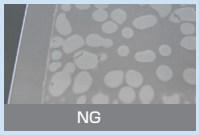
High gap-filling ability to fill the printing gap

	Structure	
	Cover glass / glass sensor	OGS / LCD
Conventional product	 OK	 NG
Development product	 OK	 OK

*Test condition : Glass (with decorative printing) / Adhesive / Glass 85℃85%RH × 120hrs

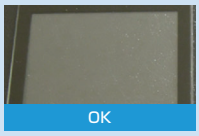
High blister ressistance on resin panels


OK


NG

*Test condition : 80℃dry×240h

Moisture and heat resistance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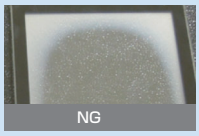
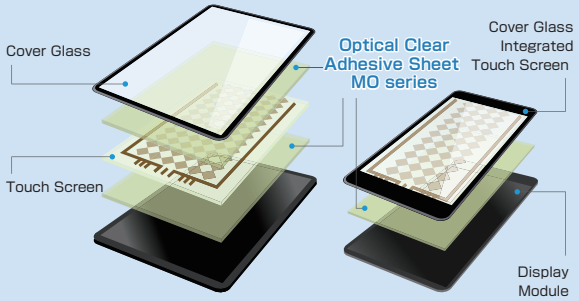

NG

*Test condition : ITO PET/OCA/ITO PET
85℃ 85%RH x 120hrs

Application



- Component bonding for in-vehicle displays, mobile devices, and various other types of displays
- Bonding of rigid components to each other, such as cover panels/LCD modules (direct bonding), and cover panels/glass sensors

Rear UV type process

Applicable products: MO-3015UV, MO-3014UV2+, MO-3015UV2

* In the case of UV irradiation through a material such as a resin plate that has UV-cutting performance, it is possible to use the MO-3015 UV2 to bond together.

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Product Line-up

Product name	Thickness (μm)	Adhesion (N/25mm)	Optical properties		Gap-filling ability	Blister resistance	Whitening resistance	Remarks	
			T.t. [%]	Haze(%)					
MO-3014	25~250	35	>99	<1.0	○	△	◎	Acid-free type	
MO-3015	25~250	48	>99	<1.0	◎	△	○	Acid-free type	
MO-3015UV	25~250	50	>99	<1.0	◎	◎	○	Acid-free type	*UV curing type
MO-3015UV2	25~250	50	>99	<1.0	◎	◎	○	Acid-free type	*UV curing type (applied to UV irradiation through resin panels)
MO-3019	300~500	30	>99	<1.0	○	○	○	Acid-free type	High film thickness type (development product)

*Test condition (1) Applied surface : soda glass, Facestock : PET film (100μm), Adhesive thickness : 100μm, Bonding time : 24hours, Measurement environment : 23°C and 50%RH
(2) Test condition : Soda glass / adhesive

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