



Material Solutions for Display Bonding & Encapsulation



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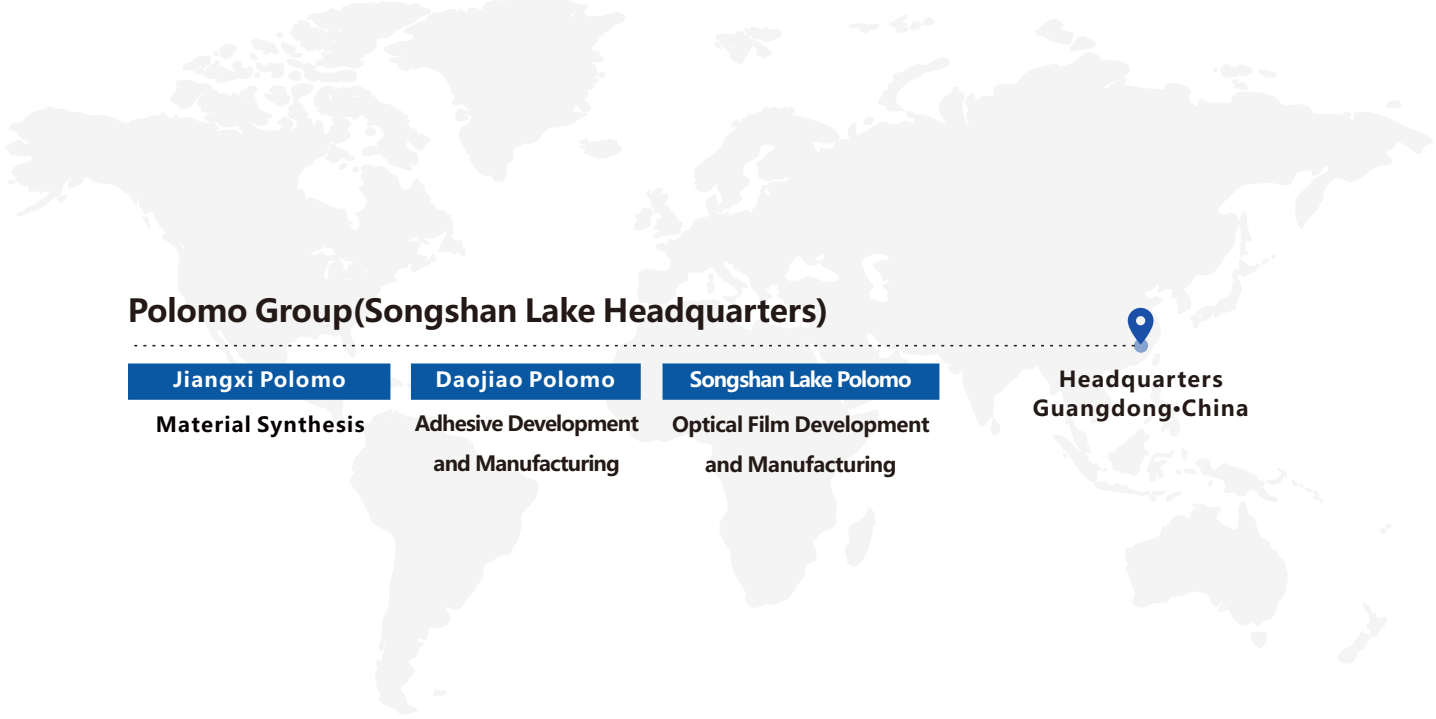
www.polomo.com

ABOUT US

“ Advancing human progress through continuous applied innovation in chemical material technologies ” defines the corporate mission of Polomo since its establishment in 2002. As a polymer materials enterprise, we specialize in the R&D, manufacturing, and sales of electronic industrial sealants, adhesives, and special polymer materials.

Since 2006, Polomo has focused on photoelectric display sealants and optical bonding materials , emerging as China's leading comprehensive solution provider for optical bonding materials. Our OCR/OCA products have earned trust from industry-leading clients, with sales networks spanning Europe, America, Japan, Korea , Southeast Asia, and China. Polomo stands as the preferred partner for smart touch display lamination material solutions.

For more information, please visit our official website: www.polomo.com



Established

2002

Professionals

200+

Patents Granted

70+

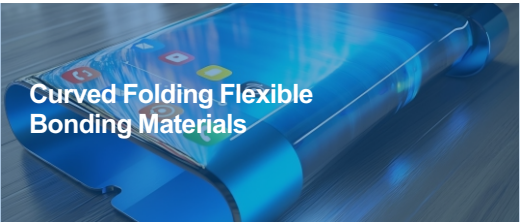
Leading Industry Client Cases

300+

Polomo Adhesive Development Timeline

- In Future**
Touch bonding material technology leader in intelligent display.
- 2024**
Sales volume of silicone OCA exceeded 10 million pieces.
- 2021**
Silicone OCA mass production.
- 2018**
Achieved IATF16949 certification.
- 2016年**
·Successfully developed UV-curing QLED sealant and began mass production of QDEF sealant.
- 2014年**
The next-generation spread-coated liquid optical adhesive has been successfully mass-produced
- 2011年**
Successfully achieved mass production of full lamination LOCA (OCR) products.
- 2009年**
Successfully developed and mass-produced acrylic TP lamination OCR (G+G).
- 2007年**
Achieved ISO9001 & ISO14001 certifications; Daojiao plant officially put into operation.
- 2002年**
Polomo was founded, focusing on the R&D, production, and application of UV adhesives for display screens.

Product Categories



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Display Optical Bonding Materials

Optical Bonding Material OCA/Optical Bonding Material OCR

Automotive Displays·Consumer Electronics·Industrial Control Displays·Aerospace/Marine

Display Optical Bonding Materials

Optical Bonding Material OCA

Silicone series

Silicone OCA is a solid-state optical adhesive with high light transmittance, used for bonding between touchscreen glass and display modules. Based on silicone polymer materials, its unique chemical structure provides exceptional high-temperature resistance, anti-yellowing properties, weather and aging resistance, as well as excellent flexibility and impact resistance. It is widely applied in automotive displays, industrial control displays, optical devices, and precision instruments and other fields.

Optical Bonding Material OCA Silicone Series

Outstanding Weather Resistance

Maintains adhesion without delamination or yellowing under prolonged use in extreme temperatures ranging from -55°C to 200°C, demonstrating exceptional adaptability to harsh environments.

Excellent Flexibility

The silicone OCA product's low modulus characteristics effectively alleviate structural stress, providing superior cushioning particularly for bonding irregular shaped screens, curved screens, and displays with poor flatness, thereby preventing display mura and other issues after lamination.

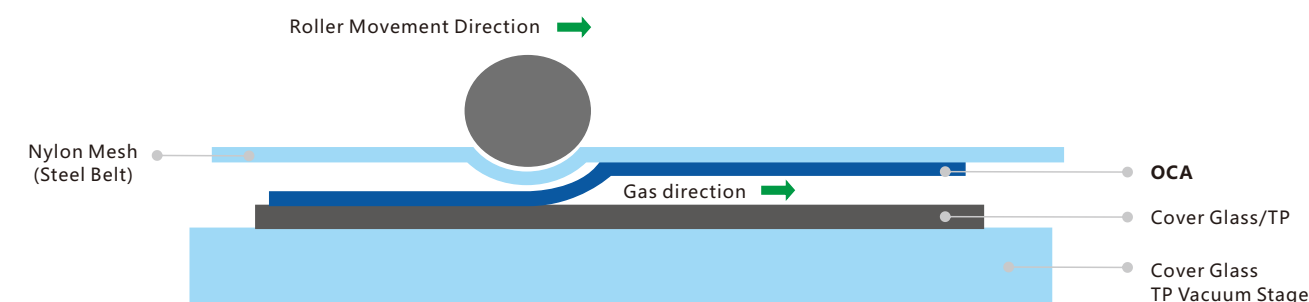
Excellent Adhesion and Stability

The silicone OCA product maintains highly stable adhesion, capable of withstanding long-term exposure to high temperatures up to 150°C without significant variation in performance due to temperature fluctuations.

Excellent Gap-Filling Capability

The silicone OCA product exhibits superior ink step coverage performance. Taking the 250μm product as an example, it achieves a filling height reaching approximately 20% of its thickness.

•Product Bonding Process



•Product Application Scenarios



- Automotive Displays
- Industrial Control Displays
- Consumer Electronics
- Aerospace/Marine

Display Optical Bonding Materials

Optical Bonding Material OCA
Silicone Series

•Display Full Lamination OCA



TS108 and TS109 are primarily used in automotive displays, industrial control displays, HUD, outdoor displays, and other optical electronic components. The thickness ranges from 20μm to 2000μm. The products offer high transparency, excellent resistance to high temperatures, aging, and yellowing, along with strong adhesion properties. Its low modulus helps to effectively reduce display mura during the lamination. TS109, as a new-generation high-adhesion OCA, features greatly enhanced initial tack, enabling superior performance in ultra-low temperature environments down to -55°C. It also shows excellent adaptability in curved displays and bonding with plastic substrates such as PC, PMMA, and PET, effectively addressing common industry challenges such as ultra-low temperature applications and the lamination of plastic cover lenses.

High temperature resistance

Weather and aging resistant

Yellowing resistance

Low modulus with high cushioning performance

Strong gap-filling capability

Excellent encapsulation

Light release liner

OCA/20-2000um

Heavy release liner

•Product Parameters											
Product Model	Refractive Index	Transmittance (%) (@300nm~800nm)	Haze (%)	ΔL	Δa	Δb	Initial Peel Strength (180°) N/25mm @glass	Peel Strength after 72H (180°) N/25mm @glass	Tensile Strength Mpa @glass	Shear Strength Mpa @glass	
TS108-0250	1.41	≥99%	<0.2	3±0.5	0±0.2	0±0.2	≥1.4	≥14	≥0.3	≥0.15	
TS109-0250	1.41	≥99%	<0.3	3±0.5	0±0.2	0±0.2	≥8	≥20	≥0.3	≥0.15	

•Other Models in the Series

Product Model	TS108-0250	TS108-0500	TS108-0800	TS109-0250	TS109-0500	TS109-0800
Thickness	250um	500um	800um	250um	500um	800um
Curing Method	PSA	PSA	PSA	PSA	PSA	PSA
Application Field	•Automotive •Industrial Control •HUD			•Automotive •Industrial Control •HUD •Curved •Plastic Substrates		

Display Optical Bonding Materials

Optical Bonding Material OCA
Acrylic Series

Optical Bonding Material OCA
Acrylic series

Acrylic OCA is a series of solid-state optical adhesives designed for lamination in automotive, industrial control, and consumer electronics applications. It features excellent adhesion and gap-filling properties, outstanding resistance to yellowing, and high reliability. It is mainly used for interlayer bonding in display modules.

- Strong Adhesion**

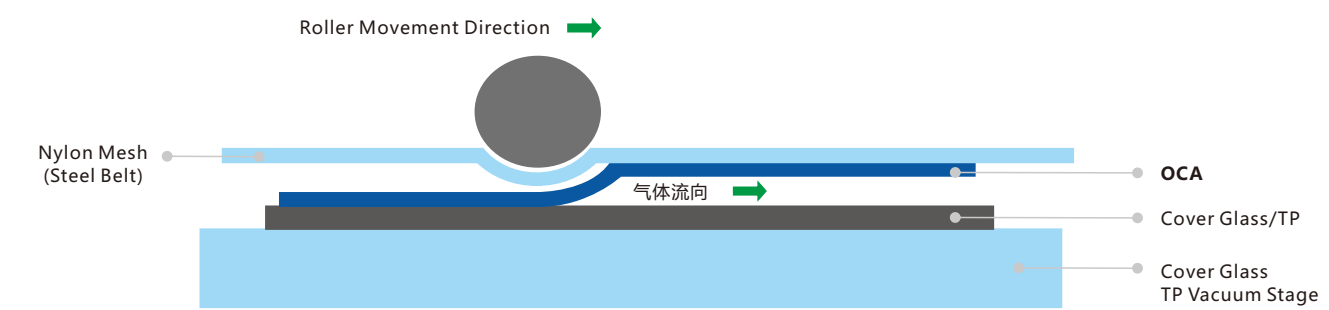
The acrylic OCA features excellent adhesive and filling performance (up to 25N/25mm), providing suitable bonding solutions for various materials.
- High Refractive Index**

The acrylic OCR has a high refractive index (up to 1.48), significantly Improving the display lamination performance.
- Excellent Weather Resistance**

It maintains a low yellowing index and high transmittance over long periods of high temperature, ultra-low temperature, and UV exposure, ensuring a stable and clear visual experience.
- Easy to Rework**

It is easy to cut and clean, reducing material waste during lamination and helping to save costs.

•Product Bonding Process



•Product Application Scenarios

• Automotive Displays

• Industrial Control Displays

• E-paper

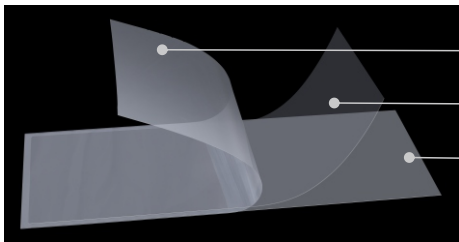
Display Optical Bonding Materials

Optical Bonding Material OCA
Acrylic Series

•Functional Laminating OCA (Outdoor, Automobile)

Polomo’ s acrylic OCA is a solid-state optical adhesive used for interlayer bonding between touch glass and display modules. The TM35 features UV-blocking functionality.

- Strong UV-blocking Capability
- High Adhesion Strength
- No Post-curing Required



Light release liner
OCA/25-2000um
Heavy release liner

•Product Parameters

Product Model	Appearance	Thickness	Refractive Index	Peel Strength (N/25mm)	UV-Blocking	Transmittance%	Haze	Initial b*
TM35-25	Colorless and Transparent	250um	1.47	> 14N	Blocking rate at 390nm > 90%	99.2	0.05	0.05

•Other Models in the Series

Product Model	TM35Y/TM35R	TG35W/TG35K
Appearance	Transparent Yellow / Transparent Red	White / Black
Thickness Range	50-250um	25-250um
Curing Method	PSA	PSA
Application Field	Color E-paper Displays and E-readers	Monochrome Display

Display Optical Bonding Materials

Optical Bonding Material OCR
Silicone Series

Optical Bonding Material OCR

Silicone series

Silicone OCR is a series of adhesives designed for optical bonding in automotive, industrial control, and large/extra-large display applications. The product line includes thermal curing two-component types and UV-delay curing single/two-component types, supporting various processes such as dispensing, scraping, injecting, slit coating, and stencil printing. It is compatible with different substrate structures such as G+G, G+P, G+OC, and G+LCM, and offers excellent adhesion to materials including glass, metal, PMMA, and TAC. The series covers a wide viscosity range from 500 to 100,000 cps to meet diverse application requirements.

Low shrinkage

This silicone OCR features an extremely low curing shrinkage rate (< 0.1%), which reduces the risk of mura when the adhesive layer is thin, making it possible to further reduce lamination thickness.

Excellent weather resistance

It maintains a low yellowing index and high transmittance over long periods of high temperature, ultra-low temperature, and UV exposure, ensuring a stable and clear visual experience.

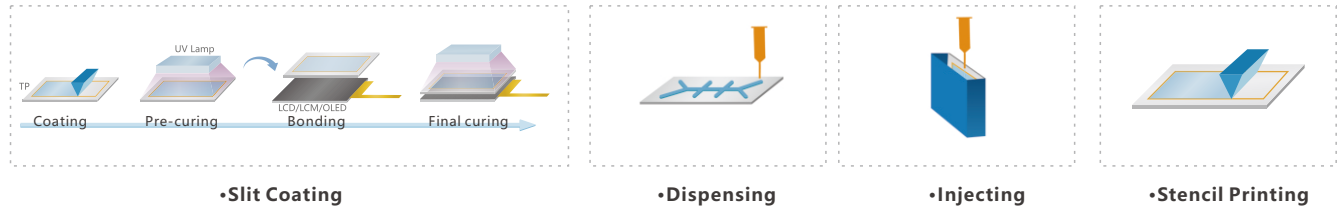
Stable mechanical performance

Its adhesion strength and elastic modulus are minimally affected by temperature, allowing it to perform reliability across various environments, including high-altitude low-pressure conditions.

Easy to Rework

It is easy to cut and clean, reducing material waste during lamination and helping to save costs.

•Product Lamination Process



•Product Application Field



- Automotive Display
- Industrial Control Display
- Commercial/Educational Display

Display Optical Bonding Materials

Optical Bonding Material OCR Silicone Series

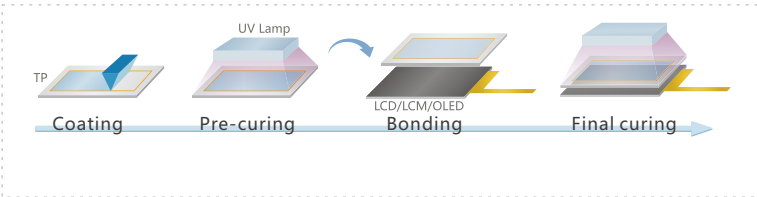
•Slit coating

The slit coating process is the most promising process. It involves applying adhesive to the surface using a coating head, followed by UV activation before lamination. This process offers high consistency in mass production, high production efficiency, no glue overflow, and no need for glue cleaning.

•Stable Optical and Mechanical Properties

•Wide Bonding Window

•Excellent Storage Stability



•Product Parameters

Product Model	Components	Cone penetration UV + 60°C/30min	Viscosity (mPa.S)	Working time at 25°C	Gel time at 60°C or UV gel energy	Refractive Index	Adhesive liquid density	Transmittance %	Haze	Initial b*	Pull strength (dry bonding, adhesive thickness 0.5mm)	Shear strength (dry bonding, adhesive thickness 0.5mm)
US207-016	Single	140	7500	> 24h	10K mj/cm2	1.41	0.97	99.1	0.02	0.02	0.37Mpa	0.18Mpa
US207-014	Two	140	7500	> 24h	10K mj/cm2	1.41	0.97	99.2	0.03	0.03	0.37Mpa	0.17Mpa

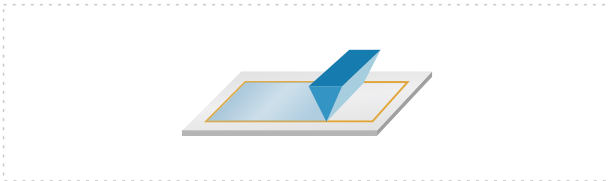
•Stencil printing

The stencil printing process uses a squeegee and SMT screen mesh (with the stencil pre-cut to the required size). It ensures high consistency in mass production, high production efficiency, no glue overflow, and no need for glue cleaning.

•Stable Optical and Mechanical Properties

•Wide Bonding Window

•Excellent Storage Stability



•Product Parameters

Product Model	Components	Cone penetration UV + 60°C/30min	Viscosity (mPa.S)	Working time at 25°C	Gel time at 60°C or UV gel energy	Refractive Index	Adhesive liquid density	Transmittance %	Haze	Initial b*	Peel strength (dry bonding, adhesive thickness 0.5mm)	Shear strength (dry bonding, adhesive thickness 0.5mm)
US208	Two	180	45000	> 24h	8K mj/cm2	1.41	0.97	99.1	0.04	0.02	0.25Mpa	0.15Mpa

Display Optical Bonding Materials

Optical Bonding Material OCR Silicone Series

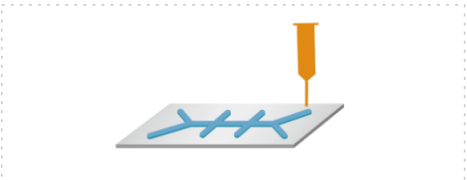
•Dispensing

Dispensing is the most widely used process, featuring mature equipment, flexible process adjustment, and strong adaptability.

•Stable Optical and Mechanical Properties

•Highly resistant to poisoning

•Excellent anti-yellowing properties



•Product Parameters

Product Model	Components	Cone penetration UV + 60°C/30min	Viscosity (mPa.S)	Working time at 25°C	Gel time at 60°C or UV gel energy	Refractive Index	Adhesive liquid density	Transmittance %	Haze	Initial b*	Peel strength (dry bonding, adhesive thickness 0.5mm)	Shear strength (dry bonding, adhesive thickness 0.5mm)
US108-010	Two	170 (45°C/15min)	1000	14min	4min	1.41	0.97	99.2	0.06	0.08	0.4Mpa	0.15Mpa
US108-020	Two	200	2000	27 min	6-7min	1.41	0.97	99.2	0.05	0.03	0.4Mpa	0.15Mpa

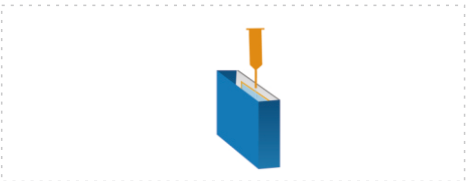
•Injecting

Injecting process is commonly used for curved screens, irregular-shaped screens, and large-size displays.

•Stable Optical and Mechanical Properties

•Highly resistant to poisoning

•Excellent anti-yellowing properties



•Product Parameters

Product Model	Components	Cone penetration UV + 60°C/30min	Viscosity (mPa.S)	Working time at 25°C	Gel time at 60°C or UV gel energy	Refractive Index	Adhesive liquid density	Transmittance %	Haze	Initial b*	Peel strength (dry bonding, adhesive thickness 0.5mm)	Shear strength (dry bonding, adhesive thickness 0.5mm)
US108-025	Two	180	500	21 min (100%) 38 min (300%)	6-7 min	1.41	0.97	99.1	0.02	0.01	0.4Mpa	0.16Mpa

Display Optical Bonding Materials

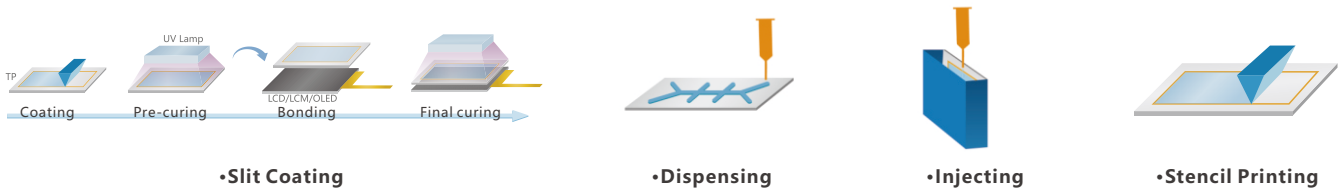
Optical Bonding Material OCR Acrylic Series

Optical Bonding Material OCR Acrylic series

Acrylic OCR is a series of one-component UV-curing adhesives designed for full lamination in automotive and industrial control applications. It supports bonding of various material structures such as G+G, G+P, and G+LCM, and offers excellent adhesion to glass, metal, PMMA, TAC, and other substrates.

- Strong Adhesion**
The acrylic OCR offers excellent adhesion and gap-filling performance (up to 1.5 Mpa) , with suitable bonding solutions for a variety of substrates.
- High Refractive Index**
It features a high refractive index (up to 1.52), significantly enhancing the optical clarity of laminated displays.
- Excellent Weather Resistance**
The material maintains low yellowing and high light transmittance even under high temperatures, extreme cold, and prolonged UV exposure —ensuring a stable and clear visual experience.
- Easy to Rework**
It is easy to cut and clean, reducing material waste during lamination and helping to save costs.

•Product Lamination Process



•Product Application Field



● Automotive Display



● Industrial Control Display

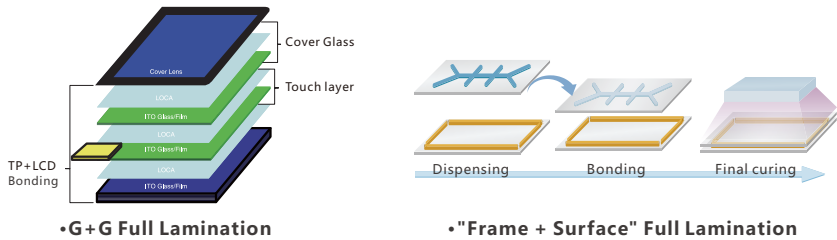
Display Optical Bonding Materials

Optical Bonding Material OCR Acrylic Series

•Adhesive for Full Lamination

Polomo Full Lamination adhesive is a one-component UV-curing adhesive designed for interlayer bonding between touch glass and display modules. M35+DM40 is applied to TP+LCM structures, while G35H is suitable for G+G bonding.

- Strong Adhesion
- High Refractive Index
- Fast Curing Efficiency



•Product Parameters

•Full Lamination "Frame + Surface" Dam Construction Process

Product Model	Components	Applications	Viscosity (mPa·s)	Curing Energy / Time	Refractive Index	pull Strength	Transmittance%	Haze	Initial b*
M35	Single	Full Lamination Surface Adhesive	3000	3000mj/cm2(2-5s)	1.48	0.5MPa	99.2	0.05	0.08
DM40	Single	Frame Adhesive	20000	3000mj/cm2(2-5s)	1.48	0.9MPa	99.2	0.1	0.03

•G+G Lamination with Dispensing Process

Product Model	Components	Applications	Viscosity (mPa·s)	Curing Energy / Time	Refractive Index	pull Strength	Transmittance%	Haze	Initial b*
G35H	Single	Full Lamination Surface Adhesive	3500	3000mj/cm2(2-5s)	1.52	1.5MPa	99.1	0.02	0.03

MLED Direct-display/Backlight Encapsulation Material

P0.3-1.2
Smart office, Automotive, Indoor Cinema

P1.2-2.5
Industrial control, Stage display, Advertisement



MLED Direct-display/Backlight Encapsulation Material

Mini/Micro LED encapsulation adhesive film is a series of thermosetting semi-solid products designed for direct-display Mini/Micro LED module encapsulation. It is mainly intended to replace traditional molding processes and supports various bonding methods such as thermo-compression and roller lamination. The product offers excellent adhesion to substrates like PCB, glass, and ink, and can be customized based on the customer's product structure.

• Product Process

•Roller lamination process offers broad applicability, requires minimal equipment investment, is easy to operate, and enables high production efficiency.

•Thermo-compression bonding process features high equipment precision and good consistency control, meeting the requirements for high flatness.

Simple Process

Eliminates the complex compression steps of traditional molding adhesives. The process is time-efficient, delivers high flatness, requires minimal equipment, and allows for easy rework.

Excellent Optical Properties

High transmittance, high haze, low yellowing, and high refractive index.

Excellent Adhesion Performance

Provides strong adhesion to substrates such as PCB, LED chips, glass, and metal.

Outstanding Reliability in Extreme Environments

Optical and mechanical stability with low risk of LED failure (dead lights).

Highly Adaptable to Various LED Board Specifications

Wide application range, versatile functionality, and high lamination yield.

•Product Parameter

The TE203W Series offers excellent thermo-compression flowability and operability. After curing, it features high transmittance, high haze, heat resistance, UV resistance, and low shrinkage. It is particularly suitable for PCB-integrated LED chip encapsulation, providing outstanding physical and mechanical properties, electrical performance, and aging resistance.

Model	Color	Transmittance	Haze	Curing Temperature	Thickness	Refractive index	Hardness	Δb*	Laminating method	Shear strength
TE201K-0150(A0)	Black semi-transparent	34.5%±1.5	97.5	130°C/90min	150±5um	1.5	76D	< 0.5	roller lamination	16Mpa
TE203W-0160(A0)	White semi-transparent	74%±1	97.5	130°C/90min	150±5um	1.5	81D	< 0.5		21Mpa
TE203W-0180(A10)	White semi-transparent	74%±1	97.5	130°C/90min	180±5um	1.5	76D	< 0.5		17Mpa
TE205K-0100(A0)	Black semi-transparent	71%±1	60	130°C/90min	100±5um	1.5	81D	< 0.5		17Mpa

•Other Product Models in the Series

Model	TE201	TE203	TE205
Applicable products	High contrast products	Standard products	Rental/Outdoor
Features	Strong covering ability	High transmittance, high haze	High reliability, texture
Application scenarios	Cinema, meeting room	Advertisement	Stage performance

Curved Folding Flexible Bonding Materials



Curved Folding Flexible Bonding Materials

Foldable Screen Protective Optical Film

Flexible impact resistance protective layer is a crucial component of flexible displays. It uses impact-resistant silicone adhesive coated on substrates such as UTG, CPI, and PET, providing strong adhesion to the substrate without the need for OCA bonding. After film formation, it offers impact protection capabilities.

Excellent Impact Resistance

Thinning

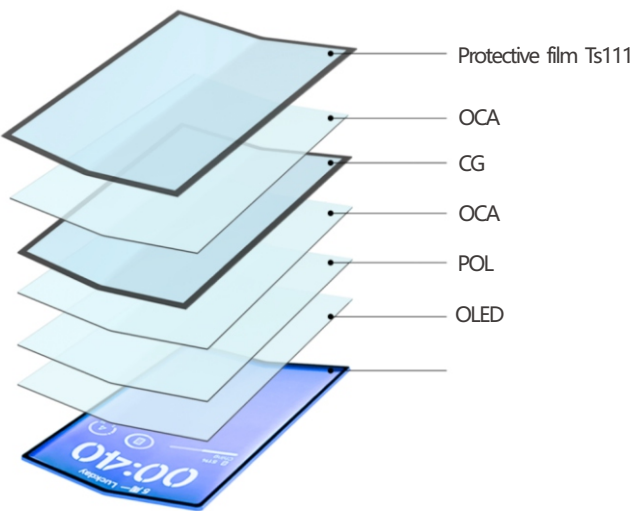
Coated Substrate Adhesion

Foldable OCA

Flexible bonding is a crucial part of flexible displays. It uses silicone foldable OCA, which offers stable high and low-temperature modulus, stable adhesion, and low surface tension for easy bonding.

High and Low-temperature Stability

Low Surface Tension and Easy Adhesion



•Product Parameter

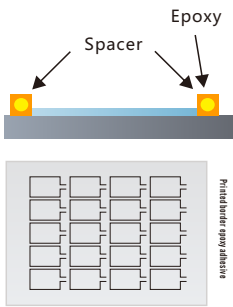
Polomo US111 is a silicone protective adhesive used for impact protection in flexible displays										
Model	Application type	Modulus	Dissipation factor	Tg point	Refractive index	Hardness	Tension strength	Elongation at break	PET crosshatch adhesion	50% linear deformation stress
US111-001	Inward folding	85Kpa	0.18	-45℃	1.41	13A	1900%	1.8Mpa	No delamination	35Kpa

Polomo TS125 is an OCA used for foldable display bonding												
Model	Status	Thickness (um)	Easy liner thickness (um)	Heavy liner thickness (um)	Release force of easy liner (gf/25mm)	Release force of heavy liner (gf/25mm)	Peel force on HC side	Bending test (R=1.0,PET+OCA+HC)	Modulus	Tg point	Creep recovery (10Kpa, 600s)	Stress relaxation (stress at 350% strain, 600s)
TS125-030	Solid sheet	30±3	50	75	2-5	10-15	480gf/25mm (At once) 660gf/25mm (168h)	> 200,000 times	37.5Kpa	< -30℃	83.7%	67.5%
TS125-050		50±3	50	75	2-5	10-15	600gf/25mm (At once) 750gf/25mm (168h)		37.5Kpa	< -30℃	83.7%	75.2%

Display Sealant Materials

•LCD Sealing Frame Adhesive

- Excellent dispensing process
- Low particle size, no silicone oil
- High box bonding strength, excellent boil stability
- Outstanding reliability, with resistance to high temperature, low temperature, and high temperature/high humidity conditions
- Stable weather resistance under thermal shock



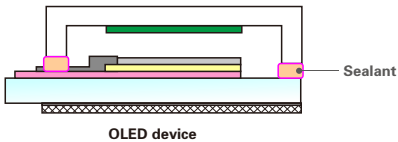
•Product Model

Model	Application	Appearance	Process	Applicable materials	Curing method	Adhesion strength	Hardness	Halogen content	Tg/°C
EP1131	LCD box sealant	White	Printing	Glass	Heat curing	40	86	< 700	146
EP1132	LCD box sealant	Black	Printing	Glass	Heat curing	40	86	< 700	146
UV1335	LCD sealing	Colorless	Dispensing	Glass	UV curing	15	70	< 150	80

Display Sealant Materials

•OLED Sealant

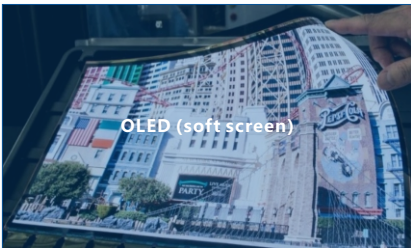
- Excellent adhesion strength and boil stability
- Stable weather resistance under high temperature, low temperature, high temperature and humidity, and thermal shock conditions. Stable weather resistance under high temperature, low temperature, high temperature and humidity, and thermal shock conditions



•Product Model

Model	Application	Appearance	Process	Applicable materials	Curing method	Viscosity/cps	Hardness/D	Adhesion strength /Mpa	Peel strength N/25mm	Water vapor transmission rate
UE70L	OLED	Grey	Dispensing spraying	Glass	UV+heat curing	100000±30000	89	-	-	1.1
UV1010	ITO protective adhesive	Colorless/Green		Glass	UV curing	400~1500	50	3-4	-	-
UV1311	FPC reinforcement adhesive	Colorless		Glass、Plastic		4000~25000	40	3-5	-	-

•Product Application Scenarios



·Flexible OLED frame-sealing adhesive



·Edge sealing adhesive for OLED lighting



·ITO Protective adhesive
·FPC reinforcement adhesive

Display Sealant Materials

E-paper Sealant

- The adhesive features a low water vapor transmission rate, providing excellent moisture barrier protection for devices.
- It offers good aging resistance, maintaining structural stability with the device during the aging process and ensuring long-lasting protection.
- Supports thermal or UV curing, making it compatible with various production processes while delivering high efficiency and energy savings.

Product Model

Model	Application	Appearance	Process	Applicable materials	Curing method	Viscosity	Hardness	Adhesion strength	Peel strength	Water vapor transmission rate
UE10	E-paper	Light yellow	Dispensing	Glass/PET	UV curing	200~3000	88	-	3-5	1.6
UE20F		Light yellow		PET/PI		200~3000	60	-	4-7	1.9
EP80		White		Glass/PET	Heat curing	1200~6000	85	30	-	1.6
BC10	Barrier film	Colorless	Dispensing spraying	PET	UV/heat curing	50~2000	62	-	3-7	1.6

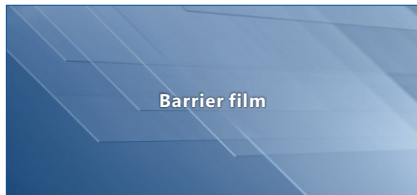
Product Application Scenarios



·E-paper flexible edge bonding adhesive (UE20F)



·E-paper UV curing edge bonding adhesive
·E-paper Heat curing edge bonding adhesive



·High barrier coating adhesive

Display Sealant Materials

Inductive bonding, inductive potting, inductive coating, shaft bonding, coil reinforcement- Product Application

- It has excellent adhesion to various composite materials, metals, ceramics, glass, and some plastics.
- It can maintain a specific shape over a wide temperature range, absorbing applied forces and protecting the stability of the components.
- Low halogen, zero VOC, with excellent environmental properties such as insulation, moisture resistance, dustproof, mildew resistance, shockproof, leakage-proof, and flame retardant.
- It can withstand various rigorous aging tests and maintain stable performance over the long term.

Product Model

Model	Application	Appearance	Process	Applicable materials	Curing method	Adhesion strength/Mpa	Hardness/D	Viscosity/cps
EP2221	Inductance bonding	Black/Grey	Dispensing	Metal, Plastic	Heat curing	17~28	64~82	1.5W~12W
EP2222	Inductance encapsulation					18~25	80~85	10W~50W
EP2223	Inductance coating					20~28	82~86	1.5W~3W
EP3020	Coil reinforcement					24~29	86~89	1.5W~3W
EP2231	Motor axis bonding					21~24	64~82	1.5W~2.5W

Product Application Scenarios



Wire-wound Inductor



SMD Inductor



Hollow Cup Motor



Camera