EVERWIDE

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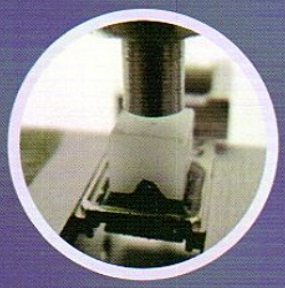
Certification Accredited

Material Applied in Photosensitive Module Industry

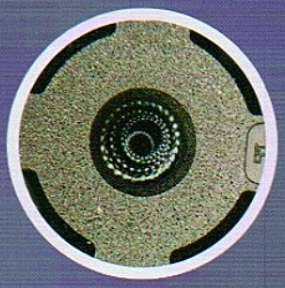
Corresponding to the trend of diversified applications of photosensitive function in photoelectric technology based multimedia products, innovative products have been developed continuously in terms of photographing, filmmaking, barcode scanning and finger print identification modules. To meet the demands of the industry, a series of adhesives are developed and launched by Everwide for the application required by a variety of module structures. Driven by this, a series of materials are manufactured to meet the requirements of higher operability, higher level of environment test standard, more effective eco-friendly material control as well as higher efficiency and cost-performance ratio.

Bonding

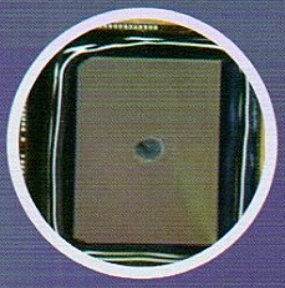


Strengthening

Sealing



Setting



Dust-proof

• *ACTIVE* • *SMART* • *EFFICIENT* • *CREATIVE*

Everwide is a famed chemical firm based in Taiwan. With the plentiful support from the material suppliers in Europe, America, Japan, Korea, and Taiwan, we can provide our customers the most efficient solutions required for the above-said applications to achieve more flexible structural design and much higher specifications of environment endurance test. In this way, the optimal cost-performance ratio and technical service level will be offered for application materials.

Photosensitive Module Industry

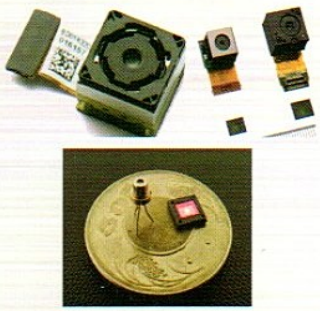
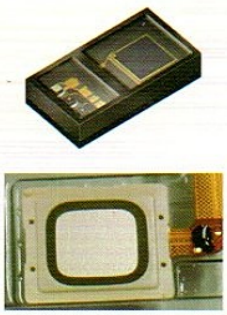
To meet the application trend of photosensitive module industry, Everwide firstly launched the encapsulated photo-curing compound for PLCC and CLCC in 2003. Later on, further products were developed for the structural assembly of sensor module to satisfy the need of applications.

Listed below are these products:

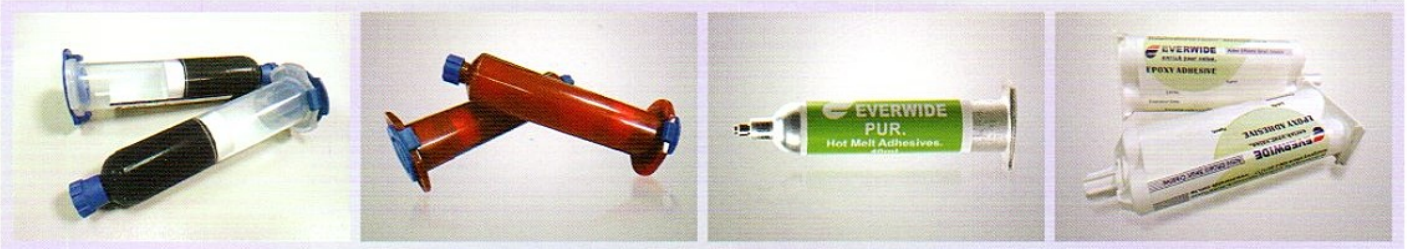
- Quick setting UV adhesive
- Low-shrink photo-curing cation resin
- Light-activated reheat-setting Hybrid epoxy
- Low-temperature 700C-800C curing resin
- Black UV and heat curing epoxy cation resin

Listed below are the glue characteristics emphasized for the materials applied in this industry:

- The purity of the glue should be very high, but extremely low in stability without evaporating any tiny molecules.
- Normally, most of the glues are packed in 10ml, 30ml and 50ml plastic tube. Therefore, the product in the tube should demonstrate extremely high homogeneity without any bubbles.
- Under same workmanship, the glue should demonstrate stabilized operability and higher reproducibility.
- The glue demands very stringent quality inspection. When used in the transportation industry, it must be ISO-TS16949 Certification accredited.
- Common environment test standard should be the -40°C*240hr, +85°C*240hr, -40°C (30min)~ 85°C (30min)*100 cycles, 85°C*85%RH*240hr level applied to the communication product.
- Common environment test standard should be the -40°C*240hr, +125°C*240hr, -40°C(120min)~125°C(120min)*100cycles,85°C *85%RH*1000hr, 3 % salt test *168hr level applied to the communication facilities.
- Meet the international environmental protection codes, such as RoHS, RoHS 2.0, Halogen Free, PFOA, PFOS, and REACH, etc.

Photosensitive Category	Optical Signal Identification Category	Bio-Medical Device Category	Security Monitoring Device Category
			

Everwide Products:

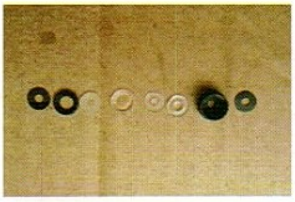


The Photosensitive Module Industry successful in applying Everwide product series:

Waterproofing lens bonding for the lens industry

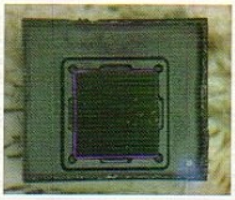
MODEL FP771 Series UV adhesive, GA373 Series UV adhesive, FK680 Series UV adhesive

- It delivers excellent bonding strength for the PC(GF), PA, LCP lens and glass or PC lens to achieve the material breaking and water resistant function.
- With the efficiency most suitable for the production line, it achieves quicker glue dispensing and faster pre-set speed after exposing to the light.
- Effective in weathering resistance, the glue shall tolerate following conditions, e.g. -40°C*500hr, 100°C*500hr, -40°C~85°C*240 times and 85°C*85%, RH*240hr.



MODEL GN278 Series UV adhesive, FR345 Series UV adhesive, JC923 Series Low-Temperature curing Epoxy, JC821 Series Low-Temperature curing Epoxy

- It delivers excellent bonding strength for the PC(GF), PA, LCP lens and glass or PC lens to provide over 1kg of push pin thrust value.
- Smooth glue dispensing while maintaining complete and straight gluing line. It should maintain straight glue dispensing line for the loaded glass panes, and easier for rinsing and drying after being cured.
- It maintains certain level of balance for the cohesion between the base material and the glue in order to mitigate the impact during the dropping test.

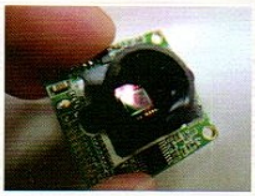


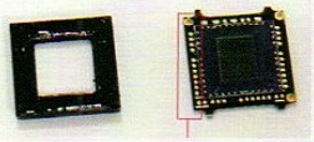
- Effective in weathering resistance, the glue shall tolerate following conditions, e.g. -40°C*500hr, 100°C*500hr, -40°C~85°C*240 times and 85°C*85%, RH*240hr.

Bonding for the structural lens mount and circuit board of Camera Module

MODEL JC821 Series Low-Temperature curing Epoxy, JD190 Series Low-Temperature curing Epoxy, JD322 Series Low-Temperature curing Epoxy

- It delivers excellent bonding strength for the PC(GF), PA, LCP lens and IR glass FR4 or FPC composite soft/hard board to provide over 5 kg of thrust value.
- Smooth glue dispensing while maintaining complete and straight gluing linear. It should achieve over 0.7 of height and width ratio and effectively hold the lens mount.
- It maintains certain level of balance for the cohesion between the base material and the glue in order to mitigate the impact during the dropping test.
- Effective in weathering resistance, the glue shall tolerate following conditions, e.g. -40°C*500hr, 100°C*500hr, -40°C~85°C*240 times and 85°C*85%, RH*240hr.

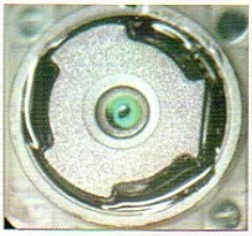




Focus Setting after Inserting lens into Lens Mount _ AF Thread type

MODEL GP424 Series UV adhesive, FR345 Series UV adhesive, JD167 Series UV adhesive

- The glue presents excellent bonding for PC(GF), PA, LCP lens mount and plastic lens and is low in shrinking stress.
- The glue should be designed with powerful cohesion and shall be suitable for the rework application.
- The glue should present high viscosity and excellent anti-sagging properties. Further, it should be dispensed smoothly and suitable for the manufacturing process using the injection glue valve.
- Shorter pre-set time and the light-curing energy should be less than 1000mj/cm2. Further, it should be suitable for LED 365nm and 395nm equipment.
- Effective in weathering resistance, the glue shall tolerate following conditions, e.g. -40°C*500hr, 120°C*500hr, -40°C~125°C*240 times and 85°C*85%, RH*240hr, 3% salt test*240hr.



Focus Setting after Inserting lens into Lens Mount _ AA Thread-free type

MODEL JD167 Series Light-activated Resin. JC887 Series Photo Setting Epoxy

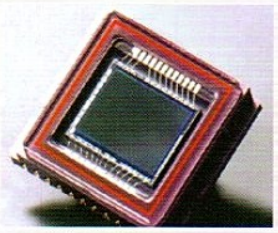
- The product should be provided in the integral package. The UV curing epoxy should be cured in advance and then followed with light-cured/low-temperature heat-activated epoxy.
- Quick curing for the light-activated resin, with contraction rate less than 3%. Furthermore, the light-cured epoxy should be high in viscosity without sagging and penetration.
- The glue should present high viscosity and excellent anti-sagging properties. In addition, it should be dispensed smoothly and suitable for the manufacturing process using the injection glue valve.
- Shorter pre-set time and the light-curing energy should be less than 1000mj/cm2. Further, it should be suitable for LED 365nm and 395nm equipment.
- Effective in weathering resistance, the glue shall tolerate following conditions, e.g. -40°C*500hr, 120°C*500hr, -40°C~125°C*240 times and 85°C*85%, RH*240hr, 3% salt test*240hr.

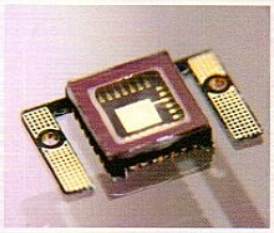
The Sensor Chip Module Industry successful in applying Everwide product series:

Bonding for the PLCC, CLCC industry

MODEL JB093 Series Cation Epoxy

- The glue presents excellent bonding for BT, FR4 base material and optical glass. The product can pass three rounds of 260°C reflow welding without peeling.
- Its working parameter is most suitable for the production line. With easier glue dispensing, it presents smooth and straight gluing line to avoid unsmooth overflow after the lamination.
- It presents air surging effect during the light-curing process. When exposing to rear-section thermal curing, it presents higher curing reaction rate to meet the intensity requirements.
- Meet the international environmental protection codes, such as RoHS, Halogen Free, PFOA, PFOS, and REACH, etc.





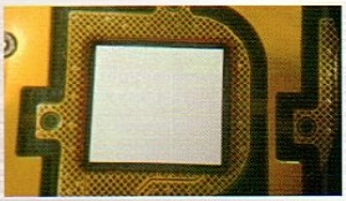
- Effective in weathering resistance, the glue shall tolerate following conditions, e.g. -40°C *500hr, 85°C *500hr, -40°C~85°C *30 times and 85°C *85%,

Optical Signal Identification Module Industry successful in applying Everwide product series:

Bonding for the Finger Print Identifier Industry. Resistant against high/low temperature, moisture corrosion, salt fog corrosion.

MODEL JD322 Series Epoxy

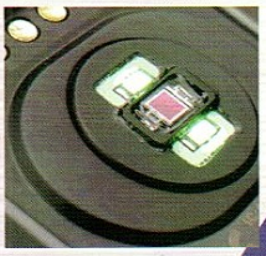
- It provides stronger bonding force for the stainless steel and glass housing. Excellent in insulation performance and heat conductivity.
- Its working parameter is most suitable for the production line. With easier glue dispensing, it presents smooth and straight gluing line to avoid unsmooth overflow after being laminated.
- Effective in weathering resistance, the glue shall tolerate following conditions, e.g. -40°C*500hr, 85°C*500hr, -40°C~85°C*30 times and 85°C*85%, RH*168hr.
- Meet the international environmental protection codes, such as RoHS, Halogen Free, PFOA, PFOS, and REACH, etc.



Packing for the bio-medical sensor industry

MODEL JA126 Series Low-temperature Cured Epoxy, FP614 Series UV adhesive

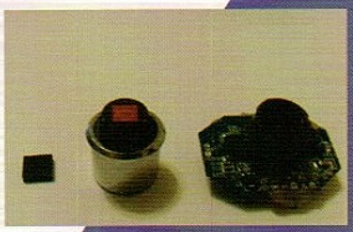
- The glue should present good transparency and anti-yellowing effect and shall provide reliable adhesion for plastics, metals, ceramics and chips.
- It maintains certain level of balance for the cohesion between the base material and the glue. Further, it shall be durable for dropping for over three times without loosening.
- With excellent weathering resistance, the glue shall tolerate following conditions, e.g. -40°C*240hr, 80°C*240hr, -40°C~85°C*240 times and 85°C*85%, RH*168hr.
- The surface of the glue should be dried through after setting. It shall be able to sustain acid/alkaline erosion and shall pass 24-hour sunscreen oil and alcohol soaking test.
- The glue should pass the cell toxicity test.



Application in Security Monitoring Industry

MODEL JC581 Series UV adhesive

- It should meet the industry's variation-free requirements when exposing to 80°C in outdoors and shall also comply with the environmental protection codes.
- After the light-curing, the volumetric variation of the glue should be less than 3% to comply with the low-contraction standard.
- Rigid bonding should be achieved for the base material. Therefore, the product should not expand or crack when exposing to high temperature; furthermore, it should be low in shrinking stress when cooling down.
- The glue should present excellent chemical resistance to sustain the erosion of oil. It should also be durable for the high-temperature, low-temperature, high-temperature/high humidity, and cold/heat cycle tests.
- The product shall satisfy the customer's demand for waterproofing requirements. After the sealing, it shall be over protection class IP68 and present a lustrous appearance.



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