


WL660 WL66H

YINCAE PRODUCTS


ADHESIVES

WL660 WL66H

TRESKY WL-66O is one part 100% solid, dual cure UV bonding adhesives, which has been designed for wafer-level lens or optical lens attachment. It can be cured by UV in a few seconds to achieve fast fixing purpose, then further cured by thermal cure to achieve the high reliability.more detailed 

High throughput and process yield

High reliability

TRESKY WL-66H is one part 100% solid, low temperature thermal cure wafer level die attach adhesives, which has been designed for wafer-level lens, optical lens and die attachment. It can be applied onto wafer using dispense or printing, and slowly cured by heat to achieve the high reliability.more detailed 

| Product Name (Test Method) | WL660 optical lens adhesives | WL66H adhesives |
|---|---------------------------------|--------------------|
| PROPERTIES OF UNCURED MATERIAL | | |
| Appearance | Transparent colorless liquid | |
| Solvent (%) | 0 | |
| Specific Gravity (ASTM D 1475-60) | 1.09g/cc | |
| Viscosity (ASTM D-1384) | WL66O: 3-6k cp | WL66H: 2-5k cp |
| PROPERTIES OF CURED MATERIAL | | |
| Durometer Hardness (ASTM D -224) | D90 | |
| Humidity Resistance (85C/95RH, 120days) | Pass | |
| Surface Insulation Resistance (IPC-J-STD-004) | Pass | |
| Tg (ASTM D 3418-82) | 120°C | |
| C.T.E (PPM/°C) (ASTM E 831) | α1 = 65 | |
| Refractive Index | 1.5-1.52 | |
| Adhesion (ASTM D2197) | Excellent | |
| Moisture Absorption (ASTM D-570) | 0.2% | |
| Extractable ions (MIL-STD-883E) | | |
| Na+ | <5ppm | |
| K+ | <5ppm | |
| F- | <5ppm | |
| Cl- | <10ppm | |
| Thermal Performance | | |
| Thermal Shock (-65/+125°C) (IPC-CC-830) | 100 cycles, Class 3 | |
| UV Yellowing Resistance, hrs (ASTM D904-99) | WL66O: | >500 |



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MORE DETAILED

... **WL66O** not only provides bubble free optical coverage and has good moisture resistance, and high temperature resistance. It is fully compatible with lead-free soldering process and is non-yellowing after three lead-free reflow cycles.

Non-yellowing

... **WL66H** not only provides bubble free coverage and has good moisture resistance, and high temperature resistance. It is fully compatible with lead-free soldering process and no delamination is observed after MSL3 treatment.

Low temperature cure

All data of thermal cycle and surface insulation resistance have indicated WL66O and WL66H meets MIL-I-46058C and IPC-CC-830 standard. WL66O and WL66H is also in full compliance with the RoHS Directive.

RECOMMENDED CURING CONDITIONS

WL66O can complete the curing in a few seconds when exposed to an one 365 watts per inch 365nm UV light ("H" lamp) with light intensity 2-5W/cm².

WL66H can complete the curing at 100 °C after 1.5-2hrs.

STORAGE & SHELF LIFE:

6 months provided materials are kept in sealed original container in refrigerator or below 5°C for WL66O and below -20°C for WL66H. Storage beyond this period can produce higher viscosity. Protect from UV light, moisture, evaporation and foreign materials. Process ability of these products can be adversely affected by evaporation and contamination.

SAFETY:

WL is a friendly, non-toxic material. However, general hygiene practice is recommended when handling this material. For detail information please consult our MSDS.

PACKAGE:

WL adhesives are available in 55cc and 12oz. package. Other packages are available depending on customer's request. Contact **TRESKY** for order information.

Note: All specifications are subject to change without notice

REPRESENTED BY:

HEADQUATERS

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