

ADHESIVES & SEALANTS FOR LIGHTING



Permabond Engineering Adhesives manufactures adhesives that are trusted for the many bonding, coating and sealing applications found in lighting manufacturing and assembly.

Permabonds diverse adhesive technologies provide manufacturing solutions for all lighting industries.

A global team of technical, sales, and distribution professionals are specially trained to ensure they can assist you in selecting the most appropriate standard or custom formulated product for your unique application. Our team looks forward to hearing from you.

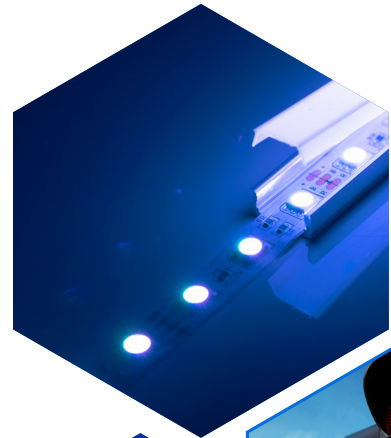
LIGHTING MANUFACTURERS SERVING THE FOLLOWING INDUSTRIES HAVE UNIQUE ADHESIVE REQUIREMENTS:

- ▶ Architectural
- ▶ Commercial
- ▶ Consumer
- ▶ Industrial
- ▶ LED
- ▶ Optical
- ▶ Parking Lot
- ▶ Residential
- ▶ Roadway
- ▶ Safety
- ▶ Stadium
- ▶ Theater
- ▶ Vehicle

IDEAL FOR BONDING:

- ABS
- Acrylic
- Aluminum
- Carbon Fiber
- Composite
- EPDM
- FRP/GRP
- Ferrite
- Glass
- Laminate
- Leather
- Nylon
- Phenolic
- Polycarbonate
- Polypropylene* *...and many more!*
- Polyethylene*
- Polystyrene
- PVC
- Rubber
- Steel
- Titanium
- Zinc

*Specific grades only



ADHESIVES FOR LIGHTING

| Application Description | Grade | Type | Features | Temperature Resistance | Handling Time |
|---------------------------------|------------------|-------------------------------------------|------------------------------------------------------------------|--------------------------------|------------------------------------|
| Dome Coating | UV683 | UV Cure | Fast, tack free, clear, non-yellowing protective coating | -55 to +120°C -65 to +248°F | 3.5 sec @ 33mW/cm2 |
| Potting | ET500 | 2-part Epoxy | Fast, clear, low viscosity and non-yellowing | -40 to +80°C -40 to +175°F | 5 - 8 min |
| Thermal Management | ES578 | 1-part Epoxy Heat Cure | Electrically insulating, thermal conductivity 1.5W/(m.K) | -40 to +180°C -40 to +355°F | 30 min @ 150°C (300°F) (full cure) |
| Thermal Management | TA4392 | Surface Activated - use with Initiator 41 | Structural Acrylic Thermal Conductivity 1.1W/(m.K) | -55 to +165°C -65 to +329°F | 10-30 sec |
| Thermal Management | MT3836 | 2- part Modified Epoxy | Soft and flexible. Thermal Conductivity 1.05W/(m.K) | -40 to +120°C -40 to +250°F | 2 - 3 hours |
| Wire Tacking | 947, CSA NF | Instant Adhesive Accelerator | Fast strong bonds to a variety of surfaces. | -55 to +80°C -65 to +180°F | 10 sec |
| LED Strip Bonding | ET515 | 2-part Epoxy Room Temp Cure | Dual cartridge with static mix nozzles bond flexible LED strips | -40 to +80°C -40 to +175°F | 25 min |
| Housing sealing | MS359 Clear | MS Polymer | One part moisture cure, excellent weather resistance | -40 to +100°C -40 to +212°F | 20 min (skin over time) |
| Reflector Bonding | 825 | Instant Adhesive Room Temp Cure | Single component, high temperature resistant | -55 to +200°C -65 to +392°F | 20 sec |
| Reflectors / Housing Bonding | 920 | Instant Adhesive Room Temp + Heat Cure | Highest temperature resistant instant adhesive | -55 to +250°C -65 to +482°F | 10 sec |
| LED Enclosures / On/Off Buttons | 940 series | Instant Adhesives Room Temp Cure | Low odor, Non-blooming grades range from 7cPs to 1200cPs | -55 to +80°C -65 to +180°F | 10 sec |
| PC Lens Bonding | UV630 | UV Cure | UV630 is ideal for bonding polycarbonate lenses | -55 to +120°C -65 to +248°F | <5 sec @ 33mW/cm2 (full cure) |
| Glass Lens Bonding | UV6160 | UV Cure | UV6160 forms crystal clear glass to metal bonds | -55 to +120°C -65 to +248°F | <2 sec LED |
| Underwater Lens Bonding | UV6231 | UV Cure | UV6231 forms bonds which withstand exposure to water | -55 to +120°C -65 to +248°F | <2 sec LED |
| Threadlocker | A113* MM115** | Anaerobic | Seals and locks fasteners against vibration loosening | -55 to +150°C -65 to +300°F | 10-15 min |
| Glass Lens Bonding | UV612T | UV and Heat Cure | Crystal clear bonds which resist yellow / high refractive index. | -55 to +120°C -65 to +248°F | <20 sec low power |

*Available in Europe, Middle East & Australia

**Available in The Americas & Asia

For full, up-to-date technical information, please refer to the TDS (Technical Data Sheet).

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