



- Cures in seconds through UV-blocked plastics
- Faster than hot-melt and low capital costs
- Low outgassing and no condensation
- Structural strength to plastics, glass, and metal
- · Small manufacturing footprint
- Reduced labor
- One-part adhesives
- No two-part mixing or waste
- No two-part racking, stacking, and waiting
- · Easy to dispense and clean
- In-line inspection
- No solvents added
- Silicone free
- · RoHS Compliant

## **Adhesives for Vehicle Lighting Assembly**

An early innovator in the use of UV light-curable adhesives for head lamp assembly, Dymax has been providing tier one automotive manufacturers of vehicle lighting with adhesives and sealants for over 40 years. New advances in adhesive technologies provide additional application opportunities for manufacturers of vehicle lighting to dramatically lower production costs. Adhesives for headlamp assembly cure in seconds and provide in-line cure for immediate quality control inspection. They resist harsh environments and withstand high temperatures to form strong structural bonds to glass, metal, plastic, and difficult-to-bond-to substrates. High-strength gap filling allows for smaller bond areas and larger reflective surfaces for brighter headlamps. Dymax adhesives are ideal for bonding lenses to reflector housings and vent-hole sealing, as well as sealing LED light assemblies.



Plastic Head Lamp Assembly

| Product | Features  | Applications  | Viscosity,<br>cP | Durometer<br>Hardness |
|---------|---|---|------------------|-----------------------|
| 3069    | UV/visible light cure; flexible plastic bonder; thermal shock resistance  | Sealing LED assemblies; potting; lens bonding; LED assemblies | 450              | D55                   |
| 3099    | UV/visible light cure; moisture resistant; fast cure; plastic bonder  | Bonding lens to reflector; potting;<br>LED assemblies         | 150              | D75                   |
| 6-621   | Multi-Cure® (heat or activator cure) for shadowed areas;<br>bonds metal, glass, and plastic                           | Ruggedizing and sealing vacuum ports                          | 800              | D80                   |
| 846-GEL | Structural strength bonds   | Lead tacking and sealing                                      | 30,000           | N/A                   |
| GA-105  | UV/visible light cure; form-in-place/cure-in-place gasket;<br>moisture resistant; soft; flexible; low compression set | Headlamp, tail light, and LED sealing                         | 40,000           | 00-70                 |

## **Recommended Light-Curing Systems**

Successful light-curing processing demands that the curing equipment be matched to the resin to achieve optimum performance and cost savings. Dymax manufactures light-curable materials and curing systems, and specializes in creating the best light-curing processes for individual applications. Our technical specialists are ready to help you maximize your profits and improve product performance.

## Our Commitment to Greener, Safer Manufacturing

Dymax is committed to green manufacturing that reduces environmental impact, conserves energy, and provides greater worker safety. Over the last 40 years, our light-curable materials and curing equipment have become the industry standard for fast, environmentally conscious assembly. Dymax products are readily replacing technologies that contain hazardous ingredients, produce waste, or require higher amounts of energy to process.



Eco-friendly, one-component materials



Materials with no solvents added or other materials of concern for improved worker and user safety



Fast curing products and equipment designed for less energy consumption



Dymax meets global statutory and regulatory requirements





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