

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 30 years. New advances in adhesive technologies provide additional application opportunities for manufacturers of vehicle lighting to dramatically lower production costs. Solvent-free 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.



- 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
- Solvent free
- Silicone free
- RoHS Compliant



Lens-to-Reflector Housing



Plastic Head Lamp Assembly



Vent-Hole Sealing

Product	Viscosity (cP)	Durometer Hardness	Applications	Features
3069	450	D55	Sealing LED assemblies; potting; lens bonding; LED assemblies	UV/visible light cure; flexible plastic bonder; thermal shock resistance
3099	150	D75	Bonding lens to reflector; potting; LED assemblies	UV/visible light cure; moisture resistant; fast cure; plastic bonder
6-621	800	D80	Ruggedizing and sealing vacuum ports	Multi-Cure [®] (heat or activator cure) for shadowed areas; bonds metal, glass, and plastic
6-625-SV01 Rev A	10,000	D45	Headlamp sealing; ruggedizing vacuum ports	UV/visible/Multi-Cure [®] ; flexible; resilient
846-Gel	30,000	N/A	Lead tacking and sealing	Structural strength bonds
GA-105	40,000	00-70	Headlamp, tail light, and LED sealing	UV/visible light cure; Form-In-Place/Cure-In-Place gasket; moisture resistant; soft; flexible; low compression set

Light-Curing Systems for Automotive Headlamp Assembly Applications



Adhesives



Complete Curing Systems

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

For further assistance with adhesive and equipment selection, contact your DYMAX Applications Engineer.



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