

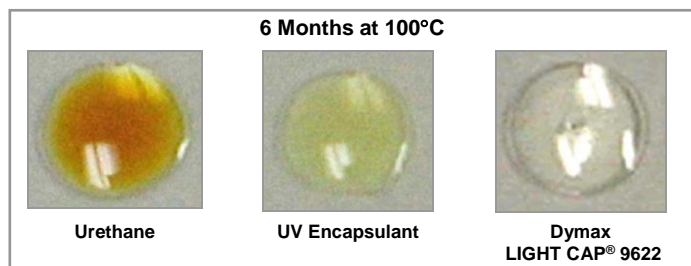
# LIGHT CAP<sup>®</sup> High-Performance LED Protection

LIGHT CAP<sup>®</sup> potting materials cure in seconds upon exposure to UV/Visible light to provide optimal protection of LEDs. These materials are designed to endure higher operating temperatures, resist yellowing, and transmit more light than competitive technologies. Offering better clarity, at higher temperatures than traditional epoxy, urethane, or UV doming resins, *LIGHT CAP* resins keep LED lighting brighter over time. These resins are also low stress, so fragile COB wire bonds are not compromised during thermal excursions or normal operating environments.



## Make LEDs Brighter and Increase Production Efficiency

- Designed for higher power LEDs
- Enhance light transmittance
- Resist heat-induced yellowing
- Optically clear
- Cure in seconds
- Lower reject rates
- One part, no mixing
- Solvent free, low VOCs



## Die Attach Encapsulants Offer the Highest Ionic Purity

LIGHT CAP resins combine high ionic purity with low shrinkage and ensure that delicate wire bonds do not break and result in rejects. Request the paper *Stress in Bonded Optics II* (literature Lit 262) for a full discussion of the cushioning properties of *LIGHT CAP* resins. Similar to the Dymax 9001 Series materials, *LIGHT CAP* resins reduce both stress and strain on wire bonds and create durable assemblies.

Typical Ionic Content		
Extractable Chloride	<10 ppm	IC
Sodium	<10 ppm	ICP
Potassium	<10 ppm	AA
Fluoride	<10 ppm	IC

# LIGHT CAP® Resin

A high-performance acrylate resin, for high-output LEDs, resist yellowing to 100°C

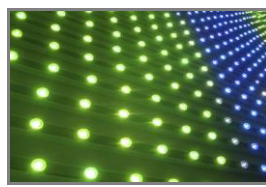
Product	Viscosity	Description
9622	12,000 mPas	Medium-viscosity material for dispensing lens shapes without molds; UV/Visible light-cure for curing hundreds of lenses per minute



LED Light



LED Lighted Elevator Letter



Green and Blue LED Pin Lights



LED Airport Flight Display

## UV Light-Curing Guidelines

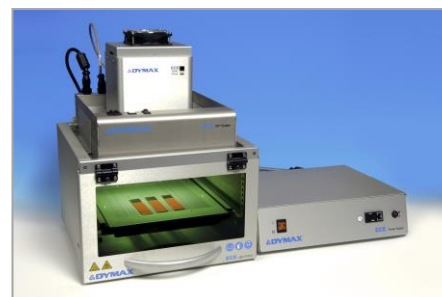
Dymax Curing System	Curing Footprint	Cure Speed
ECE 5000 Flood Lamp System	12.7 cm x 12.7 cm	2 sec
ECE 2000 Flood Lamp System	20 cm x 20 cm	10 sec
UVC-8 Conveyor	21 cm x 21 cm	Belt speed up to 10 m/min



ECE 2000 Flood Lamp Shown with ZIP™ Shutter and Light Shield  
**CE Marked**



UVC-8 Conveyors for High Productivity and Continuous Production  
**CE Marked**



ECE 5000 Flood Lamp Shown with ZIP™ Shutter and Light Shield  
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