



# Simple solutions to complex challenges.

## 3M™ Scotch-Weld™ Light Activated Epoxy Adhesive 5001



Getting electronics products to market quickly and efficiently is key to profitability, but design challenges can get in the way. One-part epoxies from 3M can help overcome complex geometries and meet your needs for chemical, water, and heat resistance.



**One-part simplicity**  
with no mixing required.



**Easy application**  
with low viscosity for gap filling and shear thinning for precision dispensing.



**Excellent stability**  
with a work life of up to 4 weeks and a 12-month shelf life when stored cold.

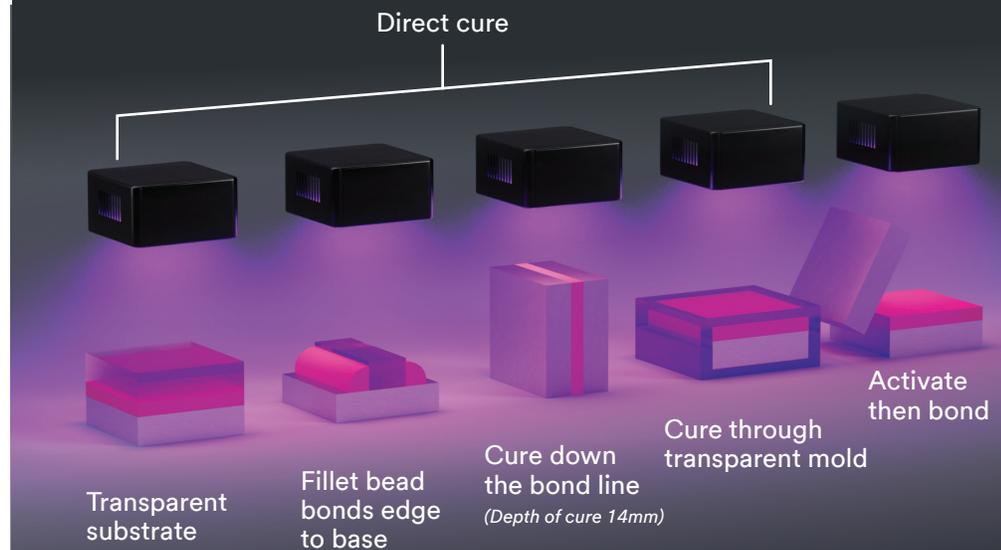


**Fast cure**  
with short activation times.



**Durable bonds**  
with a variety of substrates.

## Choose your light-cure method



## Curing times

3M™ Scotch-Weld™ Light Activated Epoxy Adhesive 5001 Clear

	Handling Strength	Full Strength
<b>Direct cure</b> 500 mW/cm <sup>2</sup> : 15 sec	<5 min*	1 hour
<b>Activate then bond</b> 360 mW/cm <sup>2</sup> : 2 sec	5 min	24 hours

Handling strength: >50psi (0.34MPa) overlap shear strength

Structural strength: >1000psi (6.9MPa) overlap shear strength

Full strength: Maximum average overlap shear strength

Light source: 450 nm LED

\* Both handling strength and structural strength achieved.

# Simple solutions to complex challenges:

- Display encapsulation
- Earphone assembly
- Wristband assembly
- Keyboard bonding
- Power adapters
- Outdoor devices



## Benefits of light curing with 3M™ Scotch-Weld™ Light Activated Epoxy Adhesive 5001:

- ✓ Reduced energy consumption
- ✓ Smaller footprint
- ✓ Increased production efficiency
- ✓ No warm-up time
- ✓ Greater depth of cure

3M™ Scotch-Weld™ Light Activated Epoxy Adhesive 5000 Series adhesives are designed to be toughened and minimize cure stress.

Simulated cure stress test: adhesive channel-cured on thin glass substrate



5001 Clear  
*Minimizes stress on glass*

Traditional 1K Epoxy  
*More stress on glass*

### 3M™ Scotch-Weld™ Light Activated Epoxy Adhesive 5001 Clear Material Properties

Viscosity @1Hz	Thixotropic index @ 0.1Hz / 1Hz	Depth of cure	Shore D hardness	Glass transition temp (Tg)	Young's modulus	Elongation
11 Pa.s	3.2	14mm	65	62°C	1920MPa	11%

[See TDS for more details.](#)

Contact your 3M representative or visit [3M.com/electronicbonding](http://3M.com/electronicbonding) to learn more.

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