

3M Science.
Applied to Life.™

A one-part epoxy for electronics with lots of parts.

3M™ Scotch-Weld™ One-Part Epoxy Adhesive

Consumers want devices that are lighter, thinner, brighter, more durable, resilient, wearable and, as always, less expensive. 3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White gives you:

- the flexibility to be innovative, and
- superior bond strength to build devices that last.

One-part epoxy adhesive—not two.

- Easy to use with no mixing and less waste
- Both resin and curing agent are in the mixture; polymerization only occurs when heat is applied, so there's no nozzle to switch out

Lets you bond to heat-sensitive substrates and places within devices.

- Low-temperature curing
- Ideal on dissimilar materials and electronic-grade plastics



With 3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White, your process is more efficient, your products are superior and your bottom line is stronger.

	3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White	Typical one-part epoxy
Room-Temp Stability	Patent-pending technology—can be stored at room temperature for up to 4 weeks	Can be stored at room temperature for 12 hours
Plastic Bonding	Bonds to metals and plastics (i.e., glass-filled nylons, PC, ABS)	Bonds to metal, magnets
Low-Temp Cure	Cures at 149°F (65°C)—Low temperature will not melt plastic; 65°C for temp-sensitive substrates; 194°F (90°C)–248°F (120°C) “snap” cure for productivity	Cures at 350°F (177°C)—High temperature will melt plastic
Flexibility	Flexible after cure; 100%+ elongation	Stiff after cure, 100% less than elongation
Controlled Rheology	Allows extreme exactness, finely dosed bonding, screen-printing and jetting	Paste, difficult to dispense exactly
Impact Resistance	Improved impact resistance; up to 3.1 joules of energy absorption	Brittle (due to stiffness)

Key Features

- Low-temperature cure and fast, high-temperature cure options
- One part with stability at room temperature
- Flexibility for increased device durability
- Water-resistant

Applications

- Mobile device bonding
- Wearable electronic device bonding
- Electronics assembly

Application Techniques

- Bead dispensing
- Jetting
- Screen-printing

Non-sag bonding for electronic manufacturing challenges.

Bonding

3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 (thixotropic with UV tracer)

- Medium viscosity allows for dispensing and jetting application
- Non-sag grade gives you a uniform bond line when attaching substrates in electronic devices
- Protects circuits and delicate electronic components
- Screen-printable



Product Information

Color	UV Tracer	Halogen	Viscosity	Pot Life	Shelf Life	60°C Cure	90°C Cure	Tensile	Elongation	Modules
Off-White	Yes	Compliant	30,000 cps	4 weeks at 25°C	18 months at -20°C	20 min	3 min	27 MPa	100%	300 MPa

Important Notice to Users

Data Sheet: Consult Safety Data Sheet before use.

Regulatory: For regulatory information about this product, contact your 3M representative.

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