

Freedom to design— One-part epoxies made for consumer electronics devices

We've developed a family of one-part epoxies, engineered especially for smartphone, tablet and wearable devices, that offer endless possibilities for design innovation.

3M™ Scotch-Weld™ One-Part Epoxy Adhesives, 6101 (Off-White) and 6102 (Black)



Easy to use and help reduce waste

- Both resin and curing agent are in the mixture; polymerization only occurs when heat is applied
- No mixing required and no nozzle to switch out
- Room temperature stability for up to four weeks, for assembly flexibility
- Freedom to make minor dispensing adjustments and build smaller batches with less waste



Protect your device for the long term

- Toughened adhesive for impact resistance
- Chemical, heat, water and humidity resistance
- Pot circuits and delicate electronic components



Enable your most ambitious designs

- Low-temperature curing to bond to or near heat-sensitive substrates
- Ideal for dissimilar materials and electronic-grade plastics
- Low shrinkage and flexible after cure

Application Techniques

- Bead dispensing
- Jetting
- Screen or stencil printing

Other Features

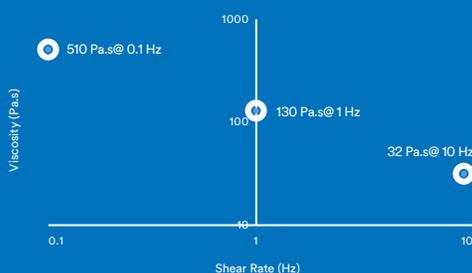
- Low temperature cure (65°C) or accelerated cure option (90–120°C)
- Non-sag performance for improved bead stability
- Low halogen (meets IEC 61249-2-21)
- Flexible after cure with greater than 70% elongation

Product Comparison

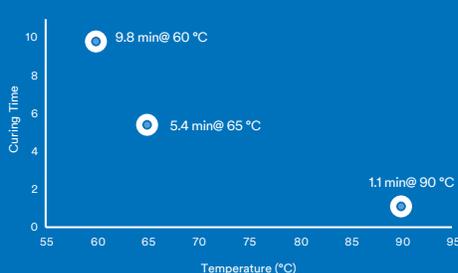
	3M™ Scotch-Weld™ One-Part Epoxy 6101 (Off-White) and 6102 (Black)	Conventional One-Part Epoxy
Room-Temp Stability	Room temperature storage for up to 4 weeks	Room temperature storage for up to 12 hours
Substrate Bonding	Bonds to metals and plastics (e.g., glass-filled nylons, PC, ABS)	Bonds to metal, magnets
Low-Temp Cure	Cures at 65°C for temp-sensitive components; 90°C-120°C in accelerated environment	Cures at about 180°C—high temperature will soften plastic
Flexibility & Impact Resistance	Flexible after cure, greater than 70% elongation, improved impact resistance	Stiff after cure, low elongation, brittle
Controlled Rheology	Allows for high-precision applications, finely dosed dispensing areas, screenprinting, jetting and wicking	Paste-like texture, difficult to dispense exactly

Typical Curing Properties and Performance Characteristics*

Viscosity: Cone and Plate



90% Cure by Isothermal DSC



Overlap Shear Strength @ 65°C



*Data generated with 3M internal testing using 3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6102 (Black). For more specific details consult the [Technical Data Sheet](#).

Product Information

Product (Color)	UV Tracer	Size	Stock #
3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 (Off-White)	Yes	30mL/1 fl. oz	XA006809371
		237mL/8 fl. oz	XA006806450
3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6102 (Black)	No	30mL/1 fl. oz	XP003822697 XA006843487
		591mL/20 fl. oz	XP003822614 XA006843487

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