



Technical Data Sheet

3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6100LV Black



[Regulatory Info/SDS](#)

Product Description

3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6100LV Black is a low viscosity one-part epoxy exhibiting low temperature cure or fast high temperature cure with long room temperature pot life. This epoxy is flexible and toughened to minimize stress on small joints with CTE mismatch.

Product Features

- Low viscosity for wicking into small spaces
- One-part with stability at room temperature
- Low temperature cure and fast cure options
- Flexible
- Water Resistant

Technical Information Note

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Typical Uncured Physical Properties

Attribute Name	Temperature	Value
Color		Black ¹
Viscosity		≈1,500 cP ²
Viscosity		≈1,000 cP ³
Pot Life	23 °C (73 °F)	> 4 weeks ⁴
Components		1-Part
UV Tracer		No
Halogens (Cl, Br)		Representative samples have been tested and meet the chlorine and bromine content requirements of IEC 61249-2-21 ⁵

¹ Colors may vary from nearly white to yellow/amber. Adhesive performance is not affected by color variation.

² Cone and Plate, RT, 5Hz, 25mm SS plates, 0.0989 rad cone

³ Brookfield spindle #27 50RPM

⁴ Time to double viscosity measure by cone and plate rheometer.

⁵ Per IEC 61249-2-21

Typical Mixed Physical Properties

Cure Time

Temperature	Value
65 °C (149 °F)	≈30 min ¹
90 °C (194 °F)	≈4 min ¹

¹ Time to 90% cure by differential scanning calorimetry (DSC). Includes ramp time to temperature.

Typical Performance Characteristics

Test Method: ASTM D638, ISO 527

Attribute Name	Value
Elongation	350 % ¹
Tensile Strength	5 MPa ¹

¹ Type V dogbone. Jaw separation 2 in/min, tested at 25°C / 50%RH.

Handling/Application Information

Directions for Use

Thaw for one to two hours at room temperature before using. Do not heat syringe above 27°C when warming.

Application Examples

- Mobile device bonding
- Wearable electronic device bonding
- Electronics Assembly

Application Techniques

- Dispensing
- Jetting

Storage and Shelf Life

Store product at -20°C (-4°F) in the original, unopened packaging. For best performance, use this product within 18 months from date of manufacture.

Available Sizes

Attribute Name	Value
Packaging	30 mL syringes

Certificate of Analysis (COA)

The 3M Certificate of Analysis (COA) for this product is established when the product is commercially available from 3M. The commercially available product will have a COA specification established. The COA contains the 3M specifications and test methods for the products performance limits that the product will be supplied against. The 3M product is supplied to 3M COA test specifications and the COA test methods. Contact your local 3M representative for this product's COA.

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Select Automotive Applications:

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Safety Data Sheet: Consult Safety Data Sheet before use.

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

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