

June, 2018

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

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

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

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

Property	Values	Notes	Test Condition
Components	1-Part		
Color	Black		
Viscosity	≈1,500 cP	Cone and Plate, RT, 5Hz, 25mm SS plates, 0.0989 rad cone	
Viscosity	≈1,000 cP	Brookfield spindle #27 50RPM	
UV Tracer	No		
Halogens (Cl, Br)	Low halogen as defined by the Electrotechnical Commission (IEC) 61249-2-21 Standard	Per IEC 61249-2-21	
Pot Life	>4 weeks	Time to double viscosity measure by cone and plate rheometer.	Room Temperature

Typical Mixed Physical Properties

Property	Values	Test Condition	Notes
----------	--------	----------------	-------

No data available in table
Showing 0 to 0 of 0 entries

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

Typical Mixed Physical Properties (continued)

Property	Values	Test Condition	Notes
Cure Time	≈30 min	149°F(65°C)	Time to 90% cure by differential scanning calorimetry (DSC). Includes ramp time to temperature.
Cure Time	≈4 min	194°F(90°C)	Time to 90% cure by differential scanning calorimetry (DSC). Includes ramp time to temperature.

Typical Performance Characteristics

Property	Values	Method	Notes
Tensile Strength	5 MPa	ASTM D638	Type V dogbone. Jaw separation 2 in/min, tested at 25°C / 50%RH.
Elongation	350 %	ASTM D638	Type V dogbone. Jaw separation 2 in/min, tested at 25°C / 50%RH.
Young's Modulus	2 MPa	ASTM D638	Type V dogbone. Jaw separation 2 in/min, tested at 25°C / 50%RH.
Modulus via DMA	6.5 MPa		3°C/min ramp, 1Hz film tension mode

Table continued on next page

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

Typical Performance Characteristics (continued)

Property	Values	Method	Notes
Water Resistance	Passed up to 2.5M		Tested on 3inx6in PC parts, dispensed in a thin bond line frame around the perimeter about 10mm distance from the edge. Used 3M™ water indicator dots within adhesive frame to confirm no moisture leakage. This is not tested to IPX8 standard test.

Available Sizes

Packaging: 30 mL syringes

Handling/Application Information

Application Ideas

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

Application Techniques

- Dispensing
- Jetting

Directions for Use

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

Storage and Shelf Life

The shelf life of 3M™ One-Part Epoxy Adhesives 6100LV Black is 18 months from the date of manufacture when stored in the original packaging materials and stored at -20°C (-4°F).

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

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.

This technical data sheet may contain preliminary data and may not match the COA specification limits and/or test methods that may be used for COA purposes.

Safety Data Sheet: Consult Safety Data Sheet before use.

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

Trademarks

3M is a trademark of 3M Company

References

1. Safety Data Sheet

Url: https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=6100LV Black

Technical Information

The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

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

Product Selection and Use

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer

Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability

Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.



Industrial Adhesives and Tapes
Division
3M Center
St. Paul, MN 55144-1000
800-362-3550
www.3m.com

Please recycle.
© 3M 2018. All Rights
Reserved.

The brands listed above are trademarks of
3M.