

Commercial Branding and Transportation Division

3M™ ElectroCut™ Film 1170C Clear

Product Bulletin 1170C Clear
December 2023

Initial Issue

1 Description

3M™ ElectroCut™ Film 1170C Clear (the “Film”) is a clear, durable, transparent, UV-resistant, acrylic film coated with a transparent, pressure-sensitive adhesive that is protected by a removable liner.

The Film fulfills the clear overlamine requirement of the 3M™ MCS™ Warranty for Traffic and 3M™ MCS™ Warranty. See the [3M Sign Warranty Bulletin](#) and imaging method specific warranty matrix listed at the end of this document for matched component requirements and warranty details.

The Film is compatible with the following 3M reflective sheetings:

- 3M™ Engineer Grade Prismatic Reflective Sheeting Series 3430
- 3M™ Advanced Flexible Engineer Grade Reflective Sheeting Series 7300
- 3M™ High Intensity Prismatic Reflective Sheeting Series 3930
- 3M™ Diamond Grade™ VIP Reflective Sheeting Series 3990
- 3M™ Diamond Grade™ DG³ Reflective Sheeting Series 4000
- 3M™ Diamond Grade™ Translucent DG³ Reflective Sheeting Series 4090T
- 3M™ Diamond Grade™ DG³ Prismatic Reflective Digital Sheeting Series 4090DS/4000UDS
- 3M™ High Intensity Prismatic Reflective Digital Sheeting Series 3930DS/3930UDS

2 Specifications

If Film is applied to a compatible 3M retroreflective sheeting (as listed in Section 1) according to 3M recommendations, the resulting construction will conform to the performance requirements of ASTM D4956.

3 System of Matched Components

For a complete list of matched components approved by 3M for use with the Film covered in this bulletin and used for the creation of permanent signage, please see the 3M Sign Warranty Bulletin.

4 Shelf Life

Store in a cool, dry area at 65°F to 75°F (18°C to 24°C) and a relative humidity of 30-50%. Film must be applied to the substrate within two years of the date of manufacture.

5 Handling and Application Procedures

Note: Read the manufacturer's operating manual carefully and follow all prescribed procedures when using any equipment.

- 1 Avoid flexing the Film excessively when handling it. Flexing the Film may cause it to release from the liner.
- 2 The Film may be applied to sheeting either before or after the sheeting has been applied to the substrate. Follow all 3M lamination recommendations.
- 3 Excess or overhanging Film should be trimmed using a clean, sharp utility knife held at an angle of 30° relative to the substrate. Remove adhesive build-up using a soft cloth dampened with mineral spirits, isopropyl alcohol, or 3M Citrus Base Cleaner.

Note: 3M does NOT recommend splicing the Film.

6 Durability

Please refer to [3M Information Folder 1.7](#). Periodic Sign inspection and regular Sign replacement are strongly recommended in order to help Sign owners establish their own effective service life expectations, beyond the warranty period.

7 Health and Safety Information

Read all health hazard, precautionary, and first aid statements found in the Safety Data Sheets (SDS) and Article Information Sheets for important health, safety, and environmental information. To obtain SDS and Article Information Sheets for 3M products, go to [3M.com/SDS](https://www.3m.com/SDS), contact 3M by mail, or for urgent requests call 1-800-364-3577.

8 Warranty Information

8.1 3M Standard Product Warranty

The Film is warranted (“**3M Standard Warranty**”) to be free of defects in materials and manufacture at the time of shipment and to meet the specifications stated in this product bulletin. If the Film is proven not to have met the 3M Standard Warranty on their shipment date, then a buyer's exclusive remedy, and 3M's sole obligation, at 3M's option, will be refund or replacement of the Film.

8.2 3M™ MCS™ Warranty, MCS™ Warranty for Traffic, and Limited Remedy

For warranty on finished digitally printed sign, please refer to the 3M Sign Warranty Bulletin.

8.3 Disclaimer

THE 3M WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING OR OF PERFORMANCE, CUSTOM, OR USAGE OF TRADE.

8.4 Limitation of Liability

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

9 Other Product Information

Always confirm you have the most current version of the applicable product bulletin, information folder, or other product information from 3M's website at <http://www.3M.com/>.

10 Literature References

3M PB 3430	3M™ Engineer Grade Prismatic Reflective Sheeting Series 3430
3M PB 3930	3M™ High Intensity Prismatic Reflective Sheeting Series 3930
3M PB 3930DS	3M™ High Intensity Prismatic Reflective Digital Sheeting Series 3930DS
3M PB 3930UDS	3M™ High Intensity Prismatic Reflective Digital Sheeting Series 3930UDS
3M PB 3990	3M™ Diamond Grade™ VIP Reflective Sheeting Visual Impact Performance (VIP) Series 3990
3M PB 4000	3M™ Diamond Grade™ DG ³ Reflective Sheeting Series 4000
3M PB 4000DS	3M™ Diamond Grade™ DG ³ Prismatic Reflective Digital Sheeting Series 4000DS
3M PB 4000UDS	3M™ Diamond Grade™ DG ³ Reflective Digital Sheeting Series 4000UDS
3M PB 4090T	3M™ Diamond Grade™ Translucent DG ³ Reflective Sheeting Series 4090T
3M PB 7300	3M™ Advanced Engineer Grade Reflective Sheeting Series 7300
3M PB 8900UV	3M™ Piezo Inkjet Series 8900UV Ink

[3M Sign Warranty Bulletin](#)

[3M™ MCS™ Warranty for Traffic Matrix for ElectroCut™ Film Series 1170](#)

[3M™ MCS™ Warranty for Traffic Matrix for Screen Printed Signs](#)

[3M™ MCS™ Warranty for Traffic Matrix for Unimaged 3M™ Retroreflective Sheeting](#)

[3M™ MCS™ Warranty for Traffic Matrix for EFI H1625-RS](#)

[3M™ MCS™ Warranty Matrix for EFI H1625-RS](#)

[3M™ MCS™ Warranty Matrix for Durst 163TS and 163TS-HS Printers](#)

[3M™ MCS™ Warranty for Traffic Matrix for Durst 163TS & 163TS-H](#)

[3M™ MCS™ Warranty Matrix for HP Latex 360/365 Printers](#)

[3M™ MCS™ Warranty for Traffic Matrix for HP 360/365 Printers](#)

[3M™ MCS™ Warranty Matrix for HP Latex 1500 Printer](#)

[3M™ MCS™ Warranty Matrix for Traffic for HP Latex 1500 Printer](#)

[3M™ MCS™ Warranty Matrix for HP Latex 700/800 Series Printers](#)

[3M™ MCS™ Warranty for Traffic Matrix for HP Latex 700/800 Series Printers](#)

[HP Large Format Printing Knowledge Center](#)

ASTM Test Methods are available from ASTM International, West Conshohocken, PA.

For Information or Assistance

Call: 1-800-553-1380

In Canada Call:

1-800-3M HELPS (1-800-364-3577)

Internet:

<http://www.3M.com/roadsafety>

3M, Diamond Grade, ElectroCut, MCS, and Science. Applied to Life. are trademarks of 3M. Used under license in Canada. All other trademarks are the property of their respective owners.

3M assumes no responsibility for any injury, loss, or damage arising out of the use of a product that is not of our manufacture. Where reference is made in literature to a commercially available product, made by another manufacturer, it shall be the user's responsibility to ascertain the precautionary measures for its use outlined by the manufacturer.

Important Notice

All statements, technical information and recommendations contained herein are based on tests we believe to be reliable at the time of this publication, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties, or conditions express or implied. Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss, or damage, direct, indirect, special, or consequential, arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for his/her intended use, and user assumes all risk and liability whatsoever in connection therewith. Statements or recommendations not contained herein shall have no force or effect unless in an agreement signed by officers of seller and manufacturer.



Commercial Branding and Transportation

3M Center, Building 223-3N-30
St. Paul, MN 55144-1000 USA

Phone 1-800-553-1380

Web 3M.com/roadsafety

© 3M 2023.

All rights reserved. Electronic Only