



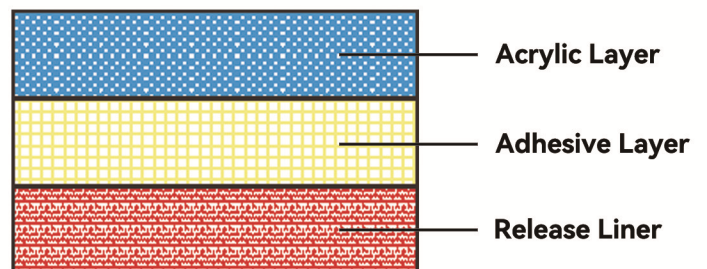
DM1700

DM Electro Cut Film Series 1700 is a tough, transparent acrylic film with a colored tint option. It comes with a transparent, pressure-sensitive adhesive protected by a removable liner. Primarily designed for creating traffic signs, especially for lettering, DM1700 allows easy background color changes for sign boards. Its exceptional durability significantly extends the life of printed ink, lasting over 7 years. The film is available in Clear, Red, Yellow, Blue, and Green colors.

DM1700 is formulated to be utilized in conjunction with DM Reflective Sheeting, forming an integral component of DM's Matched Component System for signage. Featuring a crystal-clear pressure-sensitive adhesive, DM1700 EC Film demonstrates compatibility with the full range of DM reflective sheeting employed in permanent signage:

- Engineer Grade Series DM7200 & DM5600
- High Intensity Grade Series DM7600 & DM6500
- Platinum Grade DM8900 & DM7900

Structure Diagram



E.C. Film is uniquely engineered with a specialized liner to facilitate precise kiss-cutting on electronic cutting machines. This colored E.C. Film serves as a versatile alternative to silk-screened inks, adeptly delivering transparent, colored background elements for reflective street name signs and various traffic control signs. For optimal consistency in color presentation on colored signs, it is recommended to employ E.C. Film panels from the same production lot.

DM1700 can also function as a superior lamination film, particularly when used as a protective layer after printing. With this application, it can significantly prolong the lifespan of ink for a minimum of 7 years, making it an excellent choice for any type of ink commonly used in signage production.

DM1700 Series Features

Film Liner

Polyester film, silicone coated one side, reverse treated, 0.100 mm thickness (0.004 in)

Adhesive

Solvent polyacrylate, permanent, transparent

Storage

Store in a cool, dry area 65–75°F (18–24°C), 30–50% relative humidity, and use within one year from date of receipt.

Fabrication–Cutting and Application Procedures

Important Note: It is recommended that inside radius corner fonts be used when cutting series 1700 film. Read and follow the manufacturer's operating manual carefully for proper use of cutting equipment.

1. Adjust knife pressure to cut cleanly through the film without cutting into the liner. A 30 degree blade works best. Spacing between letters or numbers should be adjusted to the aesthetic preference of the user. Consult the operating manual for instructions on how to regulate spacing. Note: Do not cut at high speed on variable speed machines.
2. Avoid sharp bends when cutting and handling film as this may cause film to release from the liner.
3. After cutting is complete, lay sheets flat, face to face, back to back. Always store sheets in this manner until the sheeting has been weeded and transfer tape has been applied to sheeting.
4. Use a stripping tool designed for weeding films that has a blunt (not a sharp) edge.
5. After weeding is completed, store sheets flat, face to face and back to back, until transfer tape is applied.
6. Transfer tape can be applied either by hand using a plastic squeegee or through a hand squeeze roll laminator. If applying the transfer tape by hand, care must be taken to always squeegee from the center to the outside in both directions. If applying the transfer tape through the HSRA, the “lead” edge must be cut square and fed into the nip very carefully to avoid wrinkles in the E.C. Film.
7. After series 1700 film and sheeting have been applied, remove the transfer tape by carefully removing the tape at as low an angle as possible
8. IMPORTANT! When the transfer tape has been removed, reroll the sign through the laminator to ensure good adhesion.
9. A clean cutting blade is required. To remove adhesive build-up use a soft cloth dampened with mineral spirits, isopropyl alcohol or Natural Cleaner.