



► Series 5590 Dual Color Film

Series 5590: Perforated

Series 5590 Dual Color Film is a 4-mil (100 micron), 85/15 perforated cast film with permanent pressure-sensitive adhesive. It is designed for illuminated signage that requires maximum visibility both day and night. Series 5590 is rated for outdoor durability up to 7 years (black and white) and 5 years (colors).

APPLICATIONS & FEATURES

- Internally Illuminated Signage
- Allows internally illuminated signs to be seen as one color during the day, and either white or a second color at night
- Perforation pattern 85/15
- Available in black and white
- Up to 7 years outdoor durability
- Features permanent adhesive and poly coated kraft paper liner

PERFORMANCE & PHYSICAL DATA

PROPERTY	TEST METHODS	TYPICAL VALUE	
SURFACE FINISH	Gloss Meter 60° Reflection	25 to 40 Gloss Units	
THICKNESS	Micrometer, Federal Bench Type	4-mil (100 micron)	
PERFORATION PATTERN	Percentage of vinyl vs. open area	85% Vinyl, 15% Open Area	
TENSILE STRENGTH	Tensile Tester 2-in (51mm) jaw separation; crosshead speed of 12 in/min. (5.1 mm/s)	≥ 25 lb/in	≥ 4.46 kg/cm
ELONGATION	Instron Tensile Tester as above	≤ 100%	
SHELF LIFE (IN BOX)	Ideal Storage Temperature 70°F (21°C) and 50% relative humidity	1 year from factory shipment	
APPLICATION TEMPERATURE RANGE	On clean, dry substrate	60°F to 90°F optimum	15°C to 32°C optimum
SERVICE TEMPERATURE RANGE	Film applied to etched aluminum panels 24 hours prior to testing	-40°F to 200°F	-40°C to 93° C
DIMENSIONAL STABILITY	158°F (70°C), 48 hours	≤ 0.025 in	0.635 mm
PEEL ADHESION	PSTC-1, 15 min, 70°F (21°C)	≥ 5 lb/in	≥ 0.89 kg/cm
LINER RELEASE	TLMI Release at 90°, 300 in/min (760 cm/min)	20 g/2 in	4 g/cm

Standard Terms & Conditions Apply

USA

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EUROPE

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ADHESIVE

This 4-mil (100 micron) perforated cast film is coated with acrylic pressure-sensitive adhesive which facilitates applications over a wide range of temperatures. Initial adhesion, ultimate adhesion and shrinkage properties have been balanced to create a product that is easy to apply, and performs to user expectations. Optimum application temperatures are between 60°F and 90°F (15°C and 32°C), but may be extended by special preparation i.e., heat gun at below 40°F (4°C) and “wet” application at above 90°F (32°C).

DURABILITY

Durability will be affected by any printing or clear coating, as well as actual exposure conditions and sign face maintenance.

For a copy of Arlon’s complete cut graphics warranty visit https://www.arlon.com/na_en/support/warranties

USAGE AND APPLICATION INFORMATION

For best results on large, continuous-color signs, be sure to utilize material from identical rolls on the same sign face to assure perfect color reflection and transmission across the sign face.

When rejoining sheets or characters, avoid overlapping film if possible. A preferable splice can be achieved utilizing a 45°-mitre cut after determining splice point by overlapping. Strip waste ends from top and bottom, then butt-angle cut together.

The angled butt splice gives best protection from uneven splices, preventing light leaks while avoiding overlaps that will create dark bands along splice edges.

When installing large graphics on glass, Plexiglas® or acrylic sign faces, it is useful to follow “wet” application techniques. This will reduce trapped air problems and aid in repositionability for proper registration. Care should be taken to thoroughly remove entrapped water through high squeegee pressure.

NOTICE TO PURCHASER

Information is based on tests believed to be reliable, but neither accuracy nor completeness is guaranteed. Seller’s and manufacturer’s only obligation shall be to replace such quantity of the film proven to be defective. Neither the seller nor the manufacturer shall be liable for any injury, loss or damage, direct or indirect, arising from the use or inability to use this product.

TERMS & CONDITIONS

The warranties offered in Arlon’s Standard Terms and Conditions, which are incorporated in full by this reference and are available at https://www.arlon.com/na_en/legal/terms-and-conditions, are made in lieu of all other express or implied warranties.

February 2026

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