



► Series 2500

Cast Translucent Film

Series 2500 is a premium 50 microns cast vinyl designed specifically for back or internally illuminated signage. Series 2500 is available in 58 standard colors, the palette is endless with Arlon's custom color capabilities. Batch-to-batch consistency ensures the integrity of regional and national programs. Series 2500 is compatible with a wide variety of rigid and flexible substrates. All of this is available with a 7-year durability rating.

APPLICATIONS & FEATURES




- 7-year durability
- Excellent color consistency - not directionally sensitive
- Superior release and weedability
- Suitable for thermoformed designs

PERFORMANCE & PHYSICAL DATA




PROPERTY	TEST METHODS	TYPICAL VALUE
SURFACE FINISH	Gloss Meter 60° Reflection	25 to 40 Gloss Units
THICKNESS	Micrometer, Federal Bench Type	50 microns
TENSILE STRENGTH	Tensile Tester 51 mm jaw separation; crosshead speed of 5.1 mm/s; web direction	≥ 0.8 kg/cm
ELONGATION	Instron Tensile Tester as above	≥ 150%
SHELF LIFE (IN BOX)	Ideal Storage Temperature 21°C and 50% relative humidity	2 years from factory shipment
APPLICATION TEMPERATURE RANGE	On clean, dry substrate	15°C to 32°C
SERVICE TEMPERATURE RANGE	Film applied to etched aluminum panels 24 hours prior to testing	-40°C to 93°C
HUMIDITY RESISTANCE	Film applied to etched aluminum panels 24 hours prior to testing; 100% relative humidity at 38°C for 500 hours	No appreciable effect
DIMENSIONAL STABILITY	70°C, 48 hour	0.40 mm
PEEL ADHESION	PSTC-1, 15 min, 21°C	≥ 0.45 kg/cm
LINER RELEASE	TLMI Release at 90°, 760 cm/min	22 g/cm

NOTE: Select colors available for thermoforming.
Standard Terms & Conditions Apply



USA

 200 Boysenberry Lane, Placentia, CA 92870
 800 232 7161 / +1 714 985 6300
 +1 714 985 6305

EUROPE

 Dr. Lelykade 22B, 2583CM Den Haag, The Netherlands
 +31 70 354 4311
 +31 70 355 7721

CHINA

 No. 1989 Xinchang Road, Weifang, Shandong, 262400
 +86 0536 6226568

ADHESIVE

Series 2500, 2-mil cast translucent vinyl film is coated with a specially developed acrylic pressure-sensitive adhesive that 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 15°C and 32°C, but may be extended by special preparation i.e., heat gun at below 5°C and “wet” application at above 30°C.

DURABILITY

Seven (7) years. Durability will be affected by clear coating or lamination as well as actual exposure conditions and sign face maintenance. Recommended laminates for Series 2500 include Series 3220 and Series 3350 (for rigid substrates only). When applying Series 3350 laminating tension should be kept at a minimum to avoid overstretching the laminate.

THERMOFORMING

Durability of the film and gloss of the underlying plastic may be reduced when thermoforming process conditions exceed 180°C for 8 minutes.

USAGE AND APPLICATION INFORMATION

For best results on large, continuous-color signs, be sure to utilize material from the same batch 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 squeeze pressure. Series 2500 is not compatible with textured surfaces such as textured glass.

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 AND CONDITIONS

The customer assumes responsibility in determining product suitability for his intended end use. Seller’s and manufacturer’s only obligation shall be to replace product proven to be defective. Standard terms and conditions apply.


The following is made in lieu of all warranties expressed or implied:

All statements, technical information and recommendations published by Arlon relating to Arlon products are based on tests believed to be reliable and within the accuracy of the equipment used to obtain the specific values. Their accuracy or completeness is not guaranteed and Arlon makes no warranty with regard thereto. Seller’s and manufacturer’s only responsibility shall be to replace any quantity of the product proved defective. Seller and manufacturer shall not be liable for injury, loss or damage, direct or consequential, arising out of use or the inability to use the product. Nor shall seller or manufacturer be liable for any costs or expenses incurred in the processing or printing on the product. Before using, user shall determine the suitability of the product for its intended use. User assumes all risk and liability of every nature in connection therewith. No statements or recommendations other than those contained in the technical information published by Arlon shall have force or effect unless contained in an agreement manually signed by the officers of seller and manufacturer.

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