



► Series 2500 Cast Translucent Film

Non-Perforated

Series 2500 is a premium 2-mil (50 micron) 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	2-mil (50 micron)	
TENSILE STRENGTH	Tensile Tester 2-in (51 mm) jaw separation; crosshead speed of 12 in/min. (5.1 mm/s)	≥ 4.5 lb/in	≥ 0.8 kg/cm
ELONGATION	Instron Tensile Tester as above	≥ 150%	
SHELF LIFE (IN BOX)	Ideal storage temperature 70°F (21°C) and 50% relative humidity	2 years 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
HUMIDITY RESISTANCE	Film applied to etched aluminum panels 24 hours prior to testing; 100% relative humidity at 100°F (38°C) for 500 hours	No appreciable effect	
DIMENSIONAL STABILITY	158°F (70°C), 48 hours	0.02 in	0.40 mm
PEEL ADHESION	PSTC-1, 15 min, 70°F (21°C)	≥ 40 oz/in	≥ 0.45 kg/cm
LINER RELEASE	TLMI Release at 90°, 300 in/min (760 cm/min)	110 g/2 in	22 g/cm

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

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 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 (5°C) and “wet” application at above 90°F (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 360°F for 8 minutes.

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.

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.