



► Series 2100 Cast Film

High Performance Cast Film

Series 2100 is a 2-mil (50 micron) cast film is extra formable, thereby providing exceptional conformability, even on deep recesses and channel constructions on vans. The advanced adhesive system is designed to perform well on a wide variety of substrates including rigid sign faces, banners, and painted metal. Series 2100 is available in 67 vibrant colors. With outdoor durability up to 12 years, it withstands adverse climate and environmental conditions.

APPLICATIONS & FEATURES

- Maintains softness over time.
- Resists embrittlement, cracking and crazing.
- Outperforms most films in multi-layered graphics.
- Provides up to 12 years of outdoor durability (varies by color; see chart on page 3)
- Conforms exceptionally well to rivets, corrugations and channel structures.
- Film is designed for cut graphics not for digital printing applications.
- Contrasting blue liner on Gloss & Matte White make for optimal cutting & weeding

PERFORMANCE & PHYSICAL DATA

PROPERTY	TEST METHODS	TYPICAL VALUE	
SURFACE FINISH	Gloss Meter 60° Reflection	70 to 90 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	Non-Metallics ≥ 170% Metallics ≥ 100%	
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	40°F to 120°F	5°C to 50°C
		60°F to 90°F optimum	15°C to 30°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
GASOLINE RESISTANCE	Film applied to etched aluminum panels 24 hours prior to testing; immersed 15 minutes at 70°F (21°C); stabilized 24 hours before inspection	No appreciable effect	
DIMENSIONAL STABILITY	158°F (70°C), 48 hours	0.01 - 0.02 in	0.25 - 0.50 mm
PEEL ADHESION	PSTC-1, 15 min	3.0/in	613 N/m 525
	PSTC-1 Ultimate Bond	4.5/in	875 N/m 787
LINER RELEASE	TLMI 300 in/min (762 cm/min) 2 in (51 mm) wide sample	150 g/2 in	30 g/cm

Standard film adhesion (PSTC-1) 180°F, peel at room temperature at a rate of 12 inches per minute after 24 hours dwell.

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DURABILITY

Series 2100 is a premium cast film. Standard colors have been weather tested in a variety of rigorous direct exposure locales including Florida, Arizona and California. Custom color matches are derived only from best weathering pigments and stabilizer systems, incurring very high durability assurance at short development times. **For specific color durability, see chart on page 3**

OPTIMUM PERFORMANCE AND WARRANTY EXCEPTIONS

Actual weathering durability depends on surface preparation, surface maintenance and exposure conditions. Successful weather resistance is characterized by the retention of legibility.

Series 2100 film will resist weathering best when applied to vertical or upper outboard angles. Horizontal angles such as hood, trunk and auto roof surfaces will weather significantly sooner than vertical and is not recommended. This is due to increased exposure to sun and moisture as well as continued high deposition of dirt and atmospheric contaminants. Arlon does not recommend its Series 2100 film for use on stainless steel trailers or latex painted surfaces.

OPACITY




Series 2100 opacity level may vary depending color and not compatible with backlighting applications. (Only Series 2500 is designed and warranted for backlighting.)

TERMS AND CONDITIONS




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

All orders and purchases made in connection with this document are governed and limited by Arlon's Standard Terms and Conditions, which are incorporated in full by this reference and are available at <http://www.arlon.com/terms-and-conditions> or in hardcopy by request.



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DURABILITY

Note: Some color fade may occur in severe environmental areas.

COLOR	VERTICAL DURABILITY ZONE 1	COLOR	VERTICAL DURABILITY ZONE 1
003 BLACK	12 Years	106 MEDIUM GREEN	9 Years
002 WHITE	10 Years	250 INTENSE BLUE	9 Years
005 BLUE	10 Years	280 TERRA COTTA	9 Years
008 BROWN	10 Years	000 CLEAR	8 Years
011 DARK BLUE	10 Years	006 YELLOW	8 Years
012 BURGUNDY	10 Years	014 TOMATO RED	8 Years
017 SAPPHIRE BLUE	10 Years	051 ARUBA BLUE	8 Years
024 DARK GREEN	10 Years	056 HOT PINK	8 Years
026 OYSTER	10 Years	059 IMITATION GOLD	8 Years
027 FAWN	10 Years	060 BRIGHT CARDINAL RED	8 Years
040 MATTE BLACK	10 Years	067 PRIMROSE YELLOW	8 Years
050 MEDIUM GRAY	10 Years	068 BEIGE	8 Years
052 DARK GRAY	10 Years	069 APPLE GREEN	8 Years
065 DARK BAHAMA BLUE	10 Years	070 PALM OYSTER GRAY	8 Years
065 MIDNIGHT BLUE	10 Years	073 POPPY	8 Years
066 MEDIUM BLUE	10 Years	079 KIWI	8 Years
074 ROYAL PURPLE	10 Years	081 TITANIUM	8 Years
086 FOREST GREEN	10 Years	083 BRIGHT ORANGE	8 Years
093 LIGHT NAVY	10 Years	084 EGGSHELL	8 Years
230 BOTTLE GREEN	10 Years	087 AQUA GREEN	8 Years
001 RED	9 Years	092 WEDGEWOOD BLUE	8 Years
018 OLYMPIC BLUE	9 Years	096 TANGERINE	8 Years
028 DOVE GRAY	9 Years	097 LIGHT ORANGE	8 Years
031 OCEAN BLUE	9 Years	165 CHROME YELLOW	8 Years
032 AZURE BLUE	9 Years	220 PERFECT MATCH RED	8 Years
042 CARDINAL RED	9 Years	221 GERANIUM	8 Years
049 MATTE WHITE	9 Years	223 PEACOCK RED	8 Years
058 DARK MAGENTA	9 Years	023 CHARCOAL METALLIC	6 Years
061 KELLY GREEN	9 Years	037 MEDIUM BLUE METALLIC	6 Years
071 TEAL	9 Years	120 PEARL	6 Years
080 GRAPHITE	9 Years	004 GOLD	5 Years
085 COCOA	9 Years	021 SMOKE METALLIC	5 Years
089 AQUA BLUE	9 Years	029 SILVER METALLIC	5 Years
099 BRIGHT PURPLE	9 Years		

February 2025

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