



ARLON

# ► Series 2100SL Vinyl Film

## High Performance Cast Film

Series 2100SL is a 2-mil (50 micron) high-gloss cast film, renowned for its exceptional formability. It provides superior conformability for complex, curved surfaces, making it ideal for vehicle graphics applications. The advanced adhesive system is designed to perform well on a wide variety of substrates including rigid sign faces, banners, windows and painted metals. Available in 41 vibrant colors, Series 2100SL offers outstanding outdoor durability, lasting up to 12 years, and is designed to withstand harsh climate and environmental conditions.

### APPLICATIONS & FEATURES

- Premium high gloss finish for all cut graphic application.
- Maintains softness over time.
- Resists embrittlement, cracking and crazing.
- Outperforms most films in multi-layered graphic applications.
- Clear synthetic liner resists moisture absorption, prevents liner splitting, and lays flat for precise plotting.
- Superior cutting & weeding capabilities.
- Provides up to 12 years of outdoor durability (varies by color; see chart on page 2)
- Non-removable adhesive that conforms exceptionally well to rivets, corrugations, and channel structures.

### PERFORMANCE & PHYSICAL DATA

PROPERTY	TEST METHODS	TYPICAL VALUE	
SURFACE FINISH	Gloss Meter 60° Reflection	80 to 90 Gloss Units (Gloss)	
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 21°C (70°F) 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 aging	0.01 - 0.02 in	0.25 - 0.50 mm
PEEL ADHESION	PSTC-1, 15 min	3.0 lbs/in	525 N/m
	PSTC-1 Ultimate Bond	4.5 lbs/in	787 N/m
LINER RELEASE	TLMI 300 in/min (762 cm/min)	60 g/2 in	12 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.

#### USA

- 200 Boysenberry Lane, Placentia, CA 92870
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#### EUROPE

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#### CHINA

- No. 1989 Xinchang Road, Weifang, Shandong, 262400
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## DURABILITY

Series 2100SL 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.

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




COLOR	VERTICAL DURABILITY ZONE 1	COLOR	VERTICAL DURABILITY ZONE 1
003 BLACK	12 Years	250 INTENSE BLUE	9 Years
002 WHITE	10 Years	280 TERRA COTTA	9 Years
005 BLUE	10 Years	006 YELLOW	8 Years
008 BROWN	10 Years	014 TOMATO RED	8 Years
011 DARK BLUE	10 Years	059 IMITATION GOLD	8 Years
012 BURGUNDY	10 Years	067 PRIMROSE YELLOW	8 Years
017 SAPPHIRE BLUE	10 Years	068 BEIGE	8 Years
024 DARK GREEN	10 Years	069 APPLE GREEN	8 Years
026 OYSTER	10 Years	070 PALM OYSTER GRAY	8 Years
052 DARK GRAY	10 Years	079 KIWI	8 Years
066 MEDIUM BLUE	10 Years	081 TITANIUM	8 Years
074 ROYAL PURPLE	10 Years	083 BRIGHT ORANGE	8 Years
086 FOREST GREEN	10 Years	096 TANGERINE	8 Years
093 LIGHT NAVY	10 Years	097 LIGHT ORANGE	8 Years
230 BOTTLE GREEN	10 Years	220 PERF MATCH RED	8 Years
001 RED	9 Years	221 GERANIUM	8 Years
018 OLYMPIC BLUE	9 Years	223 PEACOCK RED	8 Years
058 DARK MAGENTA	9 Years	023 CHARCOAL METALLIC	6 Years
061 KELLY GREEN	9 Years	004 GOLD	5 Years
080 GRAPHITE	9 Years	029 SILVER METALLIC	5 Years
106 MEDIUM GREEN	9 Years		

## 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 2100SL 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 2100SL film for use on stainless steel trailers or latex painted surfaces.



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## OPACITY

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




## TERMS AND CONDITIONS

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




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