



► IllumiNITE Wrap®

Fleet Grade Reflective Digital Print Pressure Sensitive Film with FLITE Technology®

IllumiNITE Wrap® is a 5-mil (125 micron) printable reflective vinyl film featuring FLITE Technology®. With its lite contact system, the film allows for a fast, repositionable install while maintaining the reflective quality of the film. Using Arlon's recommended installation techniques, the film easily conforms to irregular and glides over smooth surfaces, enabling graphics to be brightly displayed day and night. IllumiNITE Wrap meets or exceeds the following standards for motor vehicles: ISO 7591-1982, DOT FP-85 - Section 718, ECE 104 Class D*, and ASTM-D 4956, Spec. Type 1, Class 3. It is rated for outdoor durability up to 7 years (unprinted). Printed durability is dependent on the ink system used.

APPLICATIONS & FEATURES

- For full or partial vehicle wraps, markings and/or decals.
- Superior repositionability, minimizing bruising for optimal reflectivity.
- Fast installation with FLITE Technology®.
- Brilliant graphics by day, luminous graphics by night.
- Recommended to pair with Series 3210 overlaminate. Also compatible with Series 3220, 3200, and 3170 (Gloss).

PERFORMANCE & PHYSICAL DATA

Certified for
HP Latex Inks

PROPERTY	TEST METHODS	TYPICAL VALUE	
SURFACE FINISH	Gloss Meter 60° Reflection	80 to 90 Gloss Units	
THICKNESS	Micrometer, Federal Bench Type	5-mil (125 micron)	
TENSILE STRENGTH	Tensile Tester with 2-in (51 mm) jaw separation; crosshead speed of 12 in/min. (5.1 mm/s), web direction	≥ 10.0 lb/in	≥ 1.8 kg/cm
ELONGATION	Instron Tensile Tester as above	≥ 90%	
SHELF LIFE	Ideal Storage Temperature 70°F (21°C) and 50% relative humidity	2 years from factory shipment	
APPLICATION TEMPERATURE RANGE	On clean, dry substrate	65°F to 100°F	10°C to 38°C
SERVICE TEMPERATURE RANGE	On clean, dry substrate	-40°F to 160°F	-40°C to 71°C
DIMENSIONAL STABILITY	158°F (70°C), 48 hours	< 10 mils	< 0.25 mm
GASOLINE RESISTANCE	Film applied to etched aluminum panels 24 hours prior to testing LS-300 Method 4.4.6	No appreciable effect	
COEFFICIENT OF REFLECTIVITY	ASTM-E810 (Observation Angle: 0.2°, Entrance Angle: -4°)	100	

*ECE 104 Class "D": Material for distinctive markings/graphics intended for a limited area of no greater than 2 square meters per side on a vehicle.
Standard Terms & Conditions Apply

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PERFORMANCE & PHYSICAL DATA (CONTINUED)

PROPERTY	TEST METHODS	TYPICAL VALUE	
PEEL ADHESION	PSTC-1, 15 min. 70°F (21° C) on Stainless Steel	3.7 lbs/in	650 N/m
	PSTC-1, 24 hr. 70°F (21° C) on Stainless Steel	5.2 lbs/in	915 N/m
	PSTC-1, 1 week. 70°F (21° C) on Stainless Steel	6.4 lbs/in	1114 N/m
LINER RELEASE	TLMI Release at 90°, 300 in/min (60 cm/min)	45 g/2 in	8.9 g/cm

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OPTIMUM PERFORMANCE

Actual weathering durability depends on surface preparation, surface maintenance and exposure conditions. Successful weather resistance is characterized by the retention of legibility. IllumiNITE Wrap will resist weathering best when applied to vertical angles rather than horizontal due to the nature of less UV exposure and moisture, as well as other contaminants. For additional preparation and installation tips on IllumiNITE Wrap, reference the IllumiNITE Wrap Installation Guide.

REMOVAL

Addition of heat during removal will make the process much cleaner and faster. Where ambient temperature is not that high, use either a flame type torch or heat gun to bring the temperature up. Arlon recommends getting the film and under laying adhesive above 130°F (54°C).

Remove the film in a continuous smooth motion with minimal stops at a shallow angle of less than 90 degrees for the cleanest and fastest separation. Where it is practical, two people on the removal make the job go far faster than using just one. With one person working the heating unit in front of the second person who is peeling the film, the job proceeds at a uniform and consistent pace. Where only one person is working there will be constant starting and stopping in addition to the problems on the heat being very inconsistent.

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.”

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