



► IllumiNITE Wrap™

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

IllumiNITE Wrap® is a 5-mil (125 microns) 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 overlaminates. Also compatible with Series 3220 and 3200

Certified for
HP Latex Inks

PERFORMANCE & PHYSICAL DATA

PROPERTY	TEST METHODS	TYPICAL VALUE	
SURFACE FINISH	Gloss meter 60° reflection	80 to 90 Gloss Units	
THICKNESS	Micrometer, Federal Bench Type	5-mil (125 microns)	
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	50°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	

IllumiNITE Wrap™ is suitable for reflective vehicle graphic applications. Regulations vary by country, please refer to your National Lighting Regulation for further information.

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	≥ 2.4 lbs/in	≥ 420 N/m
	PSTC-1, 24 hr. 70°F (21° C) on stainless steel	≥ 3.0 lbs/in	≥ 525 N/m
	PSTC-1, 1 week. 70°F (21° C) on stainless steel	≥ 4.2 lbs/in	≥ 736 N/m
LINER RELEASE	TLMI Release at 90°, 300 in/min (60 cm/min)	40 g/2 in	8.0 g/cm

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 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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