



## ► Series 3310

### Extended Life Overlamine

Series 3310 is a 1.5-mil (38 micron) polyurethane film with a clear, permanent pressure-sensitive adhesive. Along with protecting and prolonging the life of printed images, Series 3310 is designed as a multi-purpose extended life overlamine, recommended for fleet and vehicle applications. Used as an overlamine, the outdoor durability is rated up to 10 years vertical exposure and up to 4 years horizontal exposure for Zone 1. Zone 2 horizontal exposure is rated up to 3 years. Zone 3 horizontal exposure is rated up to 18 months.

### APPLICATIONS & FEATURES

- Protective overlamine for digitally printed PVC media and flexible substrates
- Fleet graphics and vehicle applications
- Improved clarity than PVC overlaminates
- Superior conformability
- Increased durability & UV protection to extend the life of your graphic
- Arlon overlamine film is designed to be laminated cold without any heat

### PERFORMANCE & PHYSICAL DATA

PROPERTY	TEST METHODS	TYPICAL VALUE	
SURFACE FINISH	Gloss Meter 60° Reflection	80 Gloss Units	
THICKNESS	Micrometer, Federal Bench Type	1.5-mil (38 micron)	
TENSILE STRENGTH	Tensile Tester 2-in (51 mm) jaw separation; crosshead speed of 12 in/min. (5.1 mm/s), web direction	19 lb/in	3.4 kg/cm
ELONGATION	Instron Tensile Tester as above	400% to 450%	
SHELF LIFE (IN BOX)	Ideal storage temperature (70°F/21°C)	2 years from factory shipment	
APPLICATION TEMPERATURE RANGE	On clean, dry substrate	60°F to 90°F	16°C to 32°C
SERVICE TEMPERATURE RANGE	On clean, dry substrate	-40°F to 175°F	-40°C to 79°C
DIMENSIONAL STABILITY	158°F (70°C), 48 hours	5-mil	0.12 mm
PEEL ADHESION	PSTC-1, 15min 70°F (21°C)	3.5 - 4.5 lb/in	0.63 - 0.80 kg/cm
LINER RELEASE	TLMI Release at 90°, 300 in/min (760 cm/min)	37 g/2 in	7.28 g/cm

NOTE: Recommended post-heat surface temperature of vinyl installed: 158°F to 194°F (70°C to 90°C). The recommended post-heat temperature applies to the film and overlamine wrap. Standard Terms & Conditions Apply.

\* Actual ink life varies by ink type and by environment.

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## OPTIMUM PERFORMANCE

Series 3310 contains enhanced UV inhibitors in the vinyl formulation. Actual weathering durability depends on surface preparation, surface maintenance and exposure conditions. Successful weather resistance is characterized by the retention of legibility.

Series 3310 will resist weathering best when applied to vertical or upper outboard angles. Horizontal angles, such as hood and auto roof surfaces, will deteriorate more quickly than vertical. This is due to increased exposure to sun and moisture, as well as continued high deposition of dirt and atmospheric contaminants.




For best practice on laminating to UV inks, see [Tip 55: What is Silvering?](#)




## 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](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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