

# AUTO Wrap 3D - Laminate



The AUTO brand, exclusively from Spandex, is designed to cater for the ever-changing needs of professional wrappers, detailers and fleet applicators. The products are co-branded and have been developed in conjunction with leading manufacturers. AUTO offers a range of special edition automotive colours, paint protection films, digital wrap bundles, automotive tint films and accessories. The AUTO Wrap range has been manufactured by Arlon exclusively for Spandex.

## PRODUCT DESCRIPTION

AUTO Wrap 3D Laminate is a 35 microns premium glossy cast film with clear, permanent pressure-sensitive adhesive. Designed to protect printed graphics, the thinner facestock provides excellent conformability for your vehicle wraps, intermediate signage, and graphics. The gloss finish provides an extra pop to printed graphics. AUTO Wrap 3D matt laminate is a 50 microns premium matt cast film with clear, permanent pressure-sensitive adhesive. Designed to protect and prolong the life of printed images, it can be used on day-to-day signage as well as your specialty applications. AUTO Wrap 3D Laminates are rated for outdoor durability up to 7 years.

## APPLICATIONS & FEATURES

- Suitable for use with AUTO Wrap 3D print film.
- Fleet graphics, vehicle applications, long-term signage, kiosks and POP displays.
- UV inhibitors to protect and extend the life of your printed graphics.
- Recommended dry time for printed images is 24-48 hours prior to laminating.
- AUTO Wrap overlamine film is designed to be laminated cold without any heat.

## ADHESIVE

Permanent (Clear).

## RELEASE LINER

Clay Coated.

## RECOMMENDED PRINT FILMS:

- AUTO Wrap 3D Film.

## Technical Data

Surface finish	80 to 90 Gloss Units (Gloss)
Gloss Meter 60° Reflection	1.5 to 10 Gloss Units (Matt)
Thickness <sup>(1)</sup>	35 microns (Gloss) 50 microns (Matt)
Peel adhesion	≥ 0.53 kg/cm (Gloss) ≥ 0.8 kg/cm (Matt)
Dimensional stability <sup>(1)</sup>	≤ 0.25 mm (Gloss) ≤ 0.12 mm (Matt)
Service temperature <sup>(2)</sup>	-40°C to 79°C
Tensile strength	1.2 kg/cm (Gloss) 0.8 kg/cm (Matt)
Elongation at break	≥ 200% (Gloss) ≥ 150% (Matt)
Shelf life <sup>(3)</sup>	2 years from factory shipment
Application temperature	15°C to 38°C
Available width	137,2 cm 152,4 cm
Liner release	7.28 g/cm (Gloss) 13.78 g/cm (Matt)
Maximum service life by specialist application	7 years
Applies for vertical outdoor exposure <sup>(4)</sup>	

(1) average (2) short-term exposure (3) in original packaging, at 20° C and 50% relative humidity (4) maximum service life when applied by a specialist, and with the proper maintenance and care. Vertical outdoor weathering and central European climate. The actual and expected service life is determined by the environmental conditions, as well as pre-treatment of the substrate and regular maintenance



## OPTIMUM PERFORMANCE:

Actual weathering durability depends on surface preparation, surface maintenance and exposure conditions. Successful weather resistance is characterized by the retention of legibility. AUTO Wrap 3D Laminate 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 surfaces. This is due to increased exposure to sun and moisture, as well as continued high deposition of dirt and atmospheric contaminants. AUTO Wrap does not recommend its film for horizontal or 0 – 30 degree applications.

## PRINTING CONSIDERATIONS:

- It is important to allow ink to dry as much as possible before laminating or application (min. 24h).
- The outgassing time depends on different factors such as the printer, ink load, environment temperature, humidity level, air circulation, product wetness, and drying method.
- Use matched component laminates.
- Work area immediately around the printer is dust and dirt free.
- The printing areas should be in clean and temperature controlled area.

## APPLICATION GUIDELINE:

Whether laminating lined or laminating film using a laminating machine it is critical to use only as much unwind tension and nip pressure (gap closure) as needed to create a bubble and wrinkle free laminate. Excess lamination tension causes a variety of downstream problems with handling, installation and even after installation. When material emerges from the lamination process it should lay as flat as when it went in.

## MAINTENANCE GUIDELINE:

- 3 days after application: cleaning in car wash is possible.
- No high pressure cleaning recommended.
- For long lasting film properties we recommend to regularly use cleaning and care products.

## POST-CARE & CLEANING INSTRUCTIONS:

Fleet graphics bundles can be easily cleaned using a pressure washer but can be damaged just as easily by improperly handling the water spray or incorrectly blending the cleaning solutions. Regular washing is highly recommended to avoid the necessity of deep cleaning and to prevent accumulating dirt. In order to keep the film from degrading or lifting around the edges while pressure washing, it is important to adhere to the following guidelines:

1. Nozzle pressure should never exceed 1,300 PSI.
2. Water temperature should never exceed 140°F (60°C).
3. Nozzle tip should never be closer than five feet from the graphics.
4. Angle of water spray should be no shallower than 60° from perpendicular. Keep the nozzle spray pattern perpendicular to the overlapping direction.
5. Detergent solutions should always be blended with water at the correct ratio and pH (between 6 and 8). A more concentrated solution can damage both the adhesive and film.
6. A post-washing, fresh-water rinse will help maintain the life of the paint and film.

## IMPORTANT TO NOTE:

The information in this datasheet is based upon our present knowledge and practical experience. The information is given without any guarantee or agreement with regards to the quality or properties of the material. It does not constitute a warranty of any certain quality, properties and/or service life concerning the AUTO SE colour films. Please note that by nature films are more sensitive than lacquers. Therefore, films must be treated and maintained with the greatest care. For application of colour films (wrapping and removal) as well as for maintenance and use, please refer to our documents 'Processing Guidelines'. If our guidelines are not followed, please be advised that in particular the maximum service life information, stated as based on our experience, does not apply and any warranty and liability is excluded.

**REMOVABILITY GUIDELINE:**

1. Heat the area to be removed evenly with your heat source to approximately 125°F (50°C). In some climates the sun will give sufficient heat to do this. If temperatures exceed 125°F (50°C) the film may delaminate leaving the adhesive behind making the removal much more difficult.
2. Gently lift the edge of the graphic. When you have removed enough to get a good hand hold, begin lifting the graphic by pulling away from the vehicle at a 15° angle. Do not pull the film away from the vehicle at an angle greater than 90° as this will cause the film to delaminate leaving the adhesive behind.
3. Try to keep the leading edge of the removal in a straight line by spreading your fingers out along the top of the removed graphic. Pull slowly for a clean removal.

**APPLICATION TRAINING:**

Training & education is the key to success a perfect installation. Spandex offers regular training for customers interested in application courses. Please contact your local Spandex for more information.

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**NOTE:** Surfaces to which the material will be applied must be thoroughly cleaned and free from dust, grease or any other contamination that could affect the adhesion of the material. Freshly lacquered or painted surfaces should be allowed to dry for at least three weeks and to completely cure. The compatibility of selected lacquers and paints should be tested by the user, prior to application of the material. We also recommend to test compatibility on raw & primed MDO prior to installation due to variation in substrate properties. Furthermore, the application information published by AUTO must be considered.

**IMPORTANT NOTICE:** All AUTO products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects. Published information concerning AUTO products is based upon research which the company believes to be reliable although such information does not constitute a warranty. Because of the variety of uses of AUTO products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. All specifications are subject to change without prior notice.

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