

Avery Dennison® UWF Gloss Ultimate Wrapping Film Car Wrapping film with Easy Apply™ Technology

Revision 1

Uses

Avery Dennison® Ultimate Wrapping Film (UWF) is a calendered PVC film for the use in applications where a high quality durable finish, superior conformability and easy apply technology of application is required. *The film is designed for full or partial wrapping of vehicles or other objects.

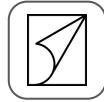
Available in 1.52m width or seamless vehicle wrapping

Common Applications

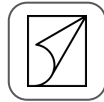
- Motor vehicle surfaces
- Marine craft surfaces
- Architectural surfaces
- Fleet graphics
- Transit wraps



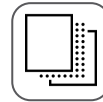
Face Film
130(±15) µm calendered PVC film



Backing
125 micron PET embossed liner



Cap Sheet
50µm anti-impact protection sheet



Adhesive
Removable, easy apply acrylic adhesive



Outdoor life**
Up to 2 years
(with 1 year warranty)

Features

- Superior high gloss, matte finish or satin finishes
- Good conformable film for reliable application on compound curves on car body
- Easy Apply adhesive with air egress channels for fast and easy removal of entrapped air bubbles
- Repositionable adhesive that allow to re-apply the film during installation
- Removable adhesive up to 2 years
- Standard colour range including colour shifting iridescent shades, pearl, metallic with different finishing including gloss, matte or lustre.
- Available in 1.52m width or seamless vehicle wrapping
- UV, temperature, humidity resistance
- Good adhesion to new generation automotive clear coats
- Good resistance for critical environment like high humidity or high temperature

Conversion

- Flatbed cutters
- Friction fed cutters
- Die cutting
- Hand cutting

General

Calliper, face film	ISO 534	130 (±15) micron
Calliper, face film & adhesive	ISO 534	170 (±20) micron
Mil. spec. shrinkage	FINAT, FTM-14	<4mm
Tensile strength	ASTM D882	>18MPa
Adhesion, initial	FINAT FTM-1, Stainless steel	>300 N/m
Adhesion, Ultimate	FINAT FTM-1, Stainless steel	>400 N/m
Shelf life	Stored at 22° C/50% RH	12 months from Mfg dt.
Expected Durability**	Vertical exposure (Zone 2)	Outdoor: 2 years
Warranty	Vertical/Horizontal exposure (Zone 2)	Outdoor: 1 years

Thermal

Application temperature	Between 10°C to 30°C
Service temperature	Between -40°C to 90°C

Important

Information on physical characteristics is based upon tests we believe to be reliable. The values listed herein are typical values and are not for use in specifications.

They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of any material for their specific use.

All technical data is subject to change without prior notice.

Warranty

Avery Dennison® materials are manufactured under careful quality control and are warranted to be free from defect in material and workmanship. Any material shown to our satisfaction to be defective at the time of sale will be replaced without charge. Our aggregate liability to the purchaser shall in no circumstances exceed the cost of the defective materials supplied. No salesman, representative or agent is authorised to give guarantee, warranty, or make any representation contrary to the foregoing. All Avery Dennison® materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

**Expected Durability

The expected durability of Avery Dennison films are defined as the expected performance life of the Avery Dennison graphic film(s) within Zone 2 of the Avery Dennison zone system, in outdoor vertical exposure conditions.

The actual performance life will depend on a variety of factors, including selection and preparation of substrate, angle and direction of exposure, application methods, environmental conditions and cleaning/maintenance of the films.

In case of films used in areas of high temperatures or humidity, high altitudes and industrially polluted areas the performance will be further reduced.

Application

Dry application only. Do not use water and detergent or a commercial application fluid to position the graphic.

For processing tips and reference guides please refer to Avery Dennison Instructional Bulletins:

- 1.01 Substrate Cleaning and Preparation
- 1.05 Procedures for Acrylic & Polycarbonate Preparation
- 1.4 Application Methods for Pressure Sensitive Adhesive Films
- 1.20 Application instructions for Avery Dennison® Ultimate Wrapping Film
- UWF Terms and Conditions 1.0 Asean

Testing Methods

Dimensional stability:

Is measured on a 150 x 150 mm aluminium panel to which a specimen has been applied; 72 hours after application the panel is exposed for 48 hours to + 70°C, after which the shrinkage is measured.

Adhesion:

(FTM-1, FINAT) is measured by peeling a specimen at a 180° angle from a stainless steel or float glass panel, 24 hours after the specimen has been applied under standardised conditions. Initial adhesion is measured 20 minutes after application of the specimen.

Flammability:

A specimen applied to aluminium is subjected to the flame of a gas burner for 15 seconds. The film should stop burning within 15 seconds after removal from the flame.

Temperature range:

A specimen applied to stainless steel is exposed at high and low temperatures and brought back to room temperature. 1 hour after exposure the specimen is examined for any deterioration. Note: Prolonged exposure to high and low temperatures in the presence of chemicals such as solvents, acids, dyes, etc. may eventually cause deterioration.

Chemical Resistance:

All chemical tests are conducted with test panels to which a specimen has been applied. 30 Mins after application the panels are immersed in the test fluid for the given test period. 1 hour after removing the panel from the fluid, the specimen is examined for any deterioration.



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