

Avery Dennison® Supreme Wrapping Film™

Diamond Line

Ultra Metallic/Speciality

Easy Apply RS™* Long Term Removability

Features

- Superior conformability to irregular substrates
- Outstanding outdoor durability and performance
- Unique patented adhesive technology
- Excellent UV, temperature, humidity and salt-spray resistance
- Easy Apply feature helps prevent wrinkles and bubbles during application
- Excellent removability

Description



Film: 137µm to 140 µm high gloss, satin or matt cast film



Adhesive: Long term removability Acrylic



Liner: 90# StaFlat, Poly-coated with Easy Apply RS technology



Outdoor life:**
Up to 3 years, vertical

Application surfaces: Flat, Flat with rivets, Corrugations.
NOTE: Films with thickness of 102 microns and above may have reduced conformability.

Conversion

- | | |
|--|--|
| <input checked="" type="checkbox"/> Flat bed cutters | <input type="checkbox"/> Cold overlaminating |
| <input checked="" type="checkbox"/> Friction fed cutters | <input type="checkbox"/> Latex Inkjet |
| <input type="checkbox"/> Die cutting | <input type="checkbox"/> Eco Solvent inkjet |
| <input type="checkbox"/> Thermal transfer | <input type="checkbox"/> Solvent inkjet |
| <input type="checkbox"/> Screen printing | <input type="checkbox"/> UV Cured inkjet |

Common Applications

- Trucks & Trailers
- Busses
- Cars & Vans
- Emergency vehicles

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
 - 1.19 Application instructions for Avery Dennison® Supreme Wrapping Film
 - 1.8 Vehicle Wrap and Graphics Maintenance

Uses

Avery Dennison Supreme Wrapping Film - Diamond Line Easy Apply Cast Vinyl Film Series is a premium quality ultra metallic cast film designed for use in vehicle and graphics markets where high quality film finish and cost effective full colour wrapping is required. The patented Avery Dennison Easy Apply RS feature allows for faster positioning, bubble free application, and long term removability.

Physical characteristics

General

| | | |
|------------------------------|--|---|
| Caliper, facefilm | | 137 to 140 micron |
| Caliper, facefilm & adhesive | | 167 to 170 micron |
| Dimensional stability | | <0.51 mm |
| Tensile strength | | >0.7 - 1.5 kg/cm |
| Elongation at break | | 200% |
| Gloss | Measured @ 60° | >85 GU |
| Adhesion, initial (15 mins) | FINAT FTM-1, stainless steel | 367 N/m |
| Adhesion, ultimate (24hrs) | FINAT FTM-1, stainless steel | 437 N/m |
| Adhesion, 1 week | FINAT FTM-1, stainless steel | 525 N/m |
| Flammability | | Self extinguishing |
| Shelf life | Stored at 22° C/50-55 % RH | 2 years from date of manufacture |
| Durability ** | | Vertical/(Horizontal) Exposure 3/(1) years |
| Removable | For the length of the applicable life of the graphic | |

Thermal

| | | |
|-------------------------|--|---|
| Application temperature | | Minimum: + 10°C flat/simple curved surfaces, + 16°C complex curves |
| Temperature range | | - 42°C to + 82°C |

Chemical

| | | |
|----------------------|-------------------------|---|
| Humidity resistance | 120 hours exposure | No effect |
| Corrosion resistance | 120 hours exposure | No contribution to corrosion |
| Water resistance | 48 hours immersion time | No effect |
| Chemical Resistance | Applied to aluminium | No effect exposed to: Oil, greases, motor oils, mild acids and alkalis. |

Test 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

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.

**Durability

Durability is based on exposure conditions in the normal middle European and central North American regions – zone 1 of the Avery Dennison Zone System. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing north in the southern hemisphere or south in the northern hemisphere; in areas of long high temperature exposure such as northern Australia; in industrially polluted areas or high altitudes, exterior performance will be decreased. Please refer to Avery Dennison Instructional Bulletin 1.3 for definitions and reductions based on the 'Zone System'.

Chemical Resistance:

All chemical tests are conducted with test panels to which a specimen has been applied. 72 hours 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.

Corrosion Resistance:

A specimen applied to aluminium is exposed to saline mist (5% salt) at 35°C. After exposure, the film is removed and the panel is examined for traces of corrosion.