

Avery Dennison® MPI 4412 Coated Backlit

440gsm Satin White Coated Translucent Backlit Banner

Features

- Strong 440gsm backlit construction
- Clean white backlit film offering a clearer and more visible image under illumination
- Up to 5m wide seamless construction
- Compatible with most solvent inkjet printers
- Rapid ink drying after printing
- Excellent tear resistance
- Reduced fraying when trimming and eyeleting
- Excellent outdoor durability
- Resistant to UV, rain, fungi and frost

Description

Film	440gsm (13oz) satin white translucent PVC Banner
Scrim Construction	1000 x 1000 denier 20 x 20 per square inch
Outdoor Life	Up to 3 years unprinted

Conversion⁺

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

⁺Always test with your combination of printer and inks prior to commercial use.

Uses

Avery Dennison MPI 4412 Coated Backlit is ideal for illuminated applications where a full colour image is to be illuminated under day and/or night conditions.

Common Applications

- Billboards
- Outdoor light boxes
- Indoor light boxes
- Public transport shelters
- Airport advertising

Physical characteristics

General

Calliper		440gsm (13oz)
Tensile strength - Length	ISO 13934-1:1999	255 kg / 50mm
- Width	ISO 13934-1:1999	224.3 kg / 50mm
Elongation - Length	ISO 13934-1:1999	-
- Width	ISO 13934-1:1999	-
Tear Strength - Length	ISO 13937-2:2000	31.6 kg force
- Width	ISO 13937-2:2000	29.5 kg force
Shelf life		1 year
Expected Durability **	Vertical exposure	Up to 3 years unprinted
Resistance to weathering	ASTM G26, XENON ARCLAMP, 18Min. SPRAY/2HRS., 100HRS EXPOSURE	No Change

Thermal

Resistance to low temperature	DIN53351	-30°C
Resistance to high temperature	DIN53351	70°C

Chemical

Determination resistance of synthetic polymeric materials to fungi	ASTM G21-1996	0
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Note:

Materials have to be properly dried and cured before further processing, like laminating, varnishing, trimming, contour cutting or application. The residual solvents can otherwise change the products' specific features and properties.

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 eventually cause deterioration.

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.

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 1 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.

Expected Durability Definition

Expected durability is the expected period of time defined in the product data sheet, the product should, but is not warranted to, perform satisfactorily when applied in vertical exposure conditions as defined in Instructional Bulletin 1.30, provided that the film is properly stored, converted and installed in accordance with Avery Dennison guidelines.