

PRODUCT DATA SHEET

Avery Dennison® 800 Premium Cast

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Introduction

Avery Dennison 800 Premium Cast is a unique medium to long life film range that offers excellent dimensional stability. The face-film allows for easy and accurate application of finished lettering and graphics to curved and corrugated surfaces.

Description

Facefilm: 50 micron premium cast vinyl
Adhesive: permanent, acrylic based
Backing paper: one side coated white kraft paper, 135 g/m²

Conversion

Avery Dennison 800 Premium Cast offers excellent weeding and cutting performance on a wide range of computer signmaking equipment in all popular sizes. Avery Dennison 800 Premium Cast can be thermal transfer printed.

Features

- Excellent conformability on curved and corrugated surfaces.
- Excellent layflatness and stability during cutting and weeding.
- Outstanding durability and outdoor performance.
- 85 standard colors, including high gloss, matt and metallics – all REACH compliant
- High gloss for superior appearance.
- Excellent dimensional stability during use and application.
- Removal after use possible (see: TB 1.2, Removal of self-adhesive films).

Avery Dennison 800 Premium Cast White and 830 Premium Cast White Matt are manufactured on a blue contrast backing paper for ease of conversion.

Recommendations for use

Avery Dennison 800 Premium Cast can generally be used for lettering and decorations in the following market segments:

- Vehicle graphics, rigid sided.
- Graphics on marine crafts and recreational vehicles.
- Directional signage.
- Window graphics.
- Retail signage.

Customer colours

In case no choice can be made from the standard colour range, special colours can be offered in the Avery Dennison 800 Premium Cast range. These colour matches can be ordered from a minimum quantity of 5 rolls.

PRODUCT CHARACTERISTICS

Avery Dennison® 800 Premium Cast

Physical properties

Features

Features	Test method ¹	Results
Caliper, facefilm	ISO 534	50 micron
Caliper, facefilm + adhesive	ISO 534	75 micron
Gloss	ISO 2813, 20°	50%
Dimensional stability	DIN 30646	0,20 mm. max
Elongation at break	DIN 53445	130%
Adhesion, initial	FINAT FTM-1, stainless steel	460 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	550 N/m
Flammability		self-extinguishing
Accelerated ageing	SAE J 1960, 2000h exposure	No negative impact on film performance
Shelf life	Stored at 22° C/50-55 % RH	2 years
Durability ²	Vertical exposure	
Black & White		10 years
All Colours & Transparent		8 years
Metallics		5 years

Temperature range

Features

Features	Results
Application temperature	Minimum: +10° C
Temperature range	-40° to + 110° C

Chemical resistance

Features

Features	Test method ¹	Results
Humidity resistance	200 hours exposure	No effect
Saltspray resistance	120 hours exposure to corrosion	No effect
Water resistance	48 hours immersion	No effect

NOTE: Materials have to be properly dried before further processing, for example laminating, varnishing or application. The residual solvents could change the products' specific features.

For good print and converting result we recommend to let the rolls acclimatize in the print/lamination room at least 24h. before printing or converting. Too much temperature or humidity deviation between material and room climate can cause layflatness and/or printability issues.

Generally, constant material storage conditions of ideally 20°C (+/- 2°C) /50% RH (+/- 5%), without too big climate deviations, will support a more robust and stable printing/converting process. For further details, please refer to TB 1.11.

Important

Information on physical and chemical 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 this material to their specific use.

All technical data are subject to change. In case of any ambiguities or differences between the English and foreign versions of these Conditions, the English version shall be controlling.

Warranty

All Avery Dennison statements, technical information and recommendations are based on tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold with the understanding that purchaser has independently determined the suitability of such products for its purposes. All Avery Dennison's products are sold subject to Avery Dennison's general terms and conditions of sale, see <http://terms.europe.averydennison.com>

1) Test methods

More information about our test methods can be found on our website.

2) Durability

The durability is based on middle European exposure conditions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing south; in areas of long high temperature exposure such as southern European countries; in industrially polluted areas or high altitudes, exterior performance will be decreased.