

PRODUCT DATA SHEET

Avery Dennison® 800PC 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.

Conversion

Avery Dennison® 800 Premium Cast offers excellent weeding and cutting performance on a wide range of computer sign making equipment in all popular sizes. Avery Dennison® 800 Premium Cast can be thermal transfer printed. Due to potential colour variation from batch to batch, it is recommended to use Avery Dennison® 800 Premium Cast films originating from the same batch in a single project.

Recommendations

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
- » Retail signage

Features

- » 85 standard colors, including high gloss, matt and metallics – all REACH compliant
- » High gloss for superior appearance
- » Excellent dimensional stability and layflatness during use and application
- » Blue contrast backing paper on Avery Dennison® 800 White Gloss and 830 White Matt for ease of conversion
- » New liner imprint design with square pattern to support manual conversion
- » Improved handling during weeding and application
- » Excellent conformability on curved and corrugated surfaces
- » Outstanding durability and outdoor performance
- » Removal after use possible (see: TB 1.2, Removal of self-adhesive films)

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.



Face Film

50 micron premium cast



Adhesive

permanent, acrylic based



Backing

one side coated white kraft paper, 135 g/m2



Durability

Up to 10 years outdoor (vertical exposure)



Shelf Life

2 years - Stored at 22°C/50%RH

Physical Characteristics

	Test method ¹	Results
Product		
Caliper, facefilm (micron)	ISO 534	50
Caliper, facefilm + adhesive (micron)	ISO 534	75
Gloss (GU)	ISO 2813	Gloss 20° 50% Matt 85° 20%
Dimensional stability (mm max.)	FINAT FTM 14	0.20 mm
Shelf life (years)	Stored at 22°C/50%RH	2
Durability ²	Vertical exposure, zone 1	
	Black&White	10 years
	All Colours & Transparent	8 years
	Metallics	5 years
Adhesive		
Elongation (%)	DIN 53455	130
Adhesion, initial (N/m)	FINAT FTM-1, stainless steel	500
Adhesion, after 24 hours (N/m)	FINAT FTM-1, stainless steel	600
Flammability		Self-extinguishing
Accelerated ageing	SAE J 1960, 2000h exposure	No negative impact on film performance
Temperature range		
Application temperature (Minimum: °C)		+10
Service temperature (°C to +°C)		-40 to +110
Chemical properties		
Humidity resistance	200 hours exposure	No effect
Saltsprayresistance	120 hours exposure	No effect
Water resistance	48 hours immersion	No effect

1) Test methods: More information about our test methods can be found on our website.

2) Durability: 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.

Important

Information on physical and chemical characteristics and values in this document are based upon tests we believe to be reliable and do not constitute a warranty. 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 this document, the English version shall be prevailing and leading.

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