

PRODUCT DATA SHEET

Avery Dennison® 800PC Premium Cast

Issued: 11/2023

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. The embossed backing of the Easy Apply version is providing enhanced ease-of-use during application. Entrapped air can easily be rubbed out without the need to punch the vinyl film.

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.

The Hi-Tack version is suitable for difficult to adhere to surfaces such as low surface energy substrates (eg. HDPE or PP) and matt interior painted walls.

Do NOT use wet application methods for Avery Dennison® 800 Premium Easy Apply version.

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
- » Available with Easy Apply Technology, for an easy application



Face Film

50 micron premium cast



Adhesive

permanent, acrylic based

Hi-tack, permanent acrylic based; designed for low-surface energy substrates



Backing

one side coated white kraft paper, 135 g/m²

Two-side polyethylene coated kraft paper, 140 g/m² with Easy Apply Technology



Durability

Up to 10 years outdoor (vertical exposure)



Shelf Life

2 years - Stored at 22°C/50% RH

- » Hi-Tack version: outstanding adhesion to low energy surfaces, like PP and PE substrates
- » Removal after use possible (see: TB 1.2, Removal of self-adhesive films)
- » Fire certification EN13501-1+A1:2013, B-s1, d0

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.

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° 10		
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		
Elongation (%)	DIN 53455	130		
Adhesion		permanent version	Easy Apply version	Hi-Tack version
Adhesion, initial (N/m)	FINAT FTM-1, stainless steel	500	400	1200
Adhesion, after 24 hours (N/m)	FINAT FTM-1, stainless steel	600	500	1250
Adhesion, initial (N/m)	FINAT FTM-1,HDPE			520
Adhesion, after 24 hours (N/m)	FINAT FTM-1,HDPE			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		

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.

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

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