

PRODUCT DATA SHEET

Avery Dennison® 900 Super Cast

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Introduction

Avery Dennison® 900 Super Cast has a proven superb conformability, which makes the product especially suitable for applications on heavy corrugated surfaces, both convex and concave.

Conversion

Avery Dennison 900 Super Cast films offer excellent conversion on a wide range of computer signmaking equipment, both drum and flatbed processing systems. Avery Dennison 900 Super Cast can be thermal transfer printed.

Recommendations

- » Vehicle graphics
- » Application on corrugated, concave, convex and compound curved surfaces and rivets without the need to make incisions
- » Architectural signage and Corporate identity
- » Police and emergency vehicle graphics -
- » Marine crafts and recreational vehicle graphics
- » Wayfinding
- » Retail signage and window graphics

Features

- » Superb conformability to irregular surfaces :
 - Deep channels and concave shaped
 - Extremely convex shaped
 - Compound (concave and convex) shaped
 - Excellent performance in corrugations and on rivets
- » Exceptional dimensional stability
- » High gloss surface for superior appearance
- » Outstanding durability and outdoor performance
- » Excellent UV-light, humidity and chemical resistance
- » Dimensionally stable backing for fast and easy conversion.
- » Full product traceability. Batch reference and product description are printed on the backing paper
- » Avery Dennison 900 Super Cast Gloss White and 920 Super Cast Matt White are manufactured on a blue contrast backing paper for ease of conversion
- » Removal of film after use, see TB:1.2, Removal of self-adhesive films

Customer colours :

A fast colour matching service is offered for projects where specific colour needs cannot be matched from the standard colour range. For supply conditions please consult your Avery Dennison representative



Face Film

50 micron superior-quality cast vinyl



Adhesive

permanent, transparent acrylic-based



Backing

one-side coated white kraft paper, 135 g/m²



Durability

Up to 12 years (vertical exposure)



Shelf Life

2 years - Stored at 22° C/50-55 % RH

Physical Characteristics

Features	Test method ¹	Results
Caliper, facefilm (micron)	ISO 534	50
Caliper, facefilm + adhesive (micron)	ISO 534	80micron
Gloss (%)	ISO 2813, 20°	50%
Dimensional stability (mm max.)	FINAT FTM 14	0,15 m. max
Accelerated ageing	SAE J 1960, 2000 hours exposure	No negative impact
Shelf life (years)	Stored at 22° C/50-55 % RH	2
Durability ² (years)	Vertical exposure - zone 1	
	White & Black	12
	Colours	10
	Metallic	6
Tensile strength (kN/m)	DIN ISO 527-3	1.0
Elongation (%)	DIN ISO 527-3	150
Flammability		self extinguishing

Adhesive

Adhesion, initial (N/m)	FINAT FTM-1, stainless steel	540
Adhesion, after ultimate (N/m)	FINAT FTM-1, stainless steel	600

Temperature range

Minimum Application temperature (°C)	+10
Service temperature (°C)	- 50 to +110

Chemical properties

Humidity resistance	120 hours exposure	No effect
Corrosion resistance	120 hours exposure	No contribution to corrosion
Water resistance	48 hours immersion	No effect
Sea water resistance	BS 5609:1986 - 3 months immersion	No effect
Chemical/Solvent resistance		

Test fluid:	Immersion time:	Adhesion:
Gasoline	1 hour	400 N/m
Diesel oil /Transformer oil/	24 hours	500 N/m
Antifreeze /SAE Motoroil/Kerosene		
Distilled water 65°C	24 hours	600 N/m
Detergent solution 65°C	8 hours	600 N/m

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 decrease. For more information on the durability and horizontal exposure please visit the "Avery Dennison® Instructional Bulletin 1.30 EU Durability of Avery Dennison Graphics Films" on the www.graphics.averydennison.eu website.

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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