

PRODUCT DATA SHEET



GRAPHICS

issued: 18/05/2007

Avery® 900 Super Cast

Introduction

Avery® 900 Super Cast is an upgraded version of Avery® 900 QM. Its improved conformability makes the product very suitable for applications on heavy corrugated surfaces, both convex and concave. Avery® 900 Super Cast films offer excellent conversion on a wide range of computer signmaking equipment, both drum and flatbed processing systems.

Description

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

Features

- Superior conformability to irregular surfaces:
 - Deeply concave shaped
 - Extremely convex shaped
 - Compound (concave and convex) shaped
 - Upgraded performance in corrugations
 - Upgraded performance on rivets
- Excellent 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 900 Super Cast 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.

Recommendations for use

- Vehicle graphics and total vehicle wrapping.
 - Application on concave, convex and compound curved surfaces without the need to make incisions.
 - Inlays may be eliminated due to the superior conformability.
- Graphics for police and emergency vehicles.
- Graphics on marine crafts and recreational vehicles.
- Directional signage.
- Retail signage and window graphics.

Avery® Colour Matching:

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.

PANTONE® Cross-references:

A range of Pantone-approved colours is offered for faster colour choices and for ease of use for designers and signmakers. A separate list with Pantone-approved cross-references shows the approved colours and the link to the standard Avery name and code.

PANTONE® is the property of Pantone, Inc.



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PRODUCT CHARACTERISTICS

Avery® 900 Super Cast

Physical properties

Features	Test method ¹	Results
Caliper, facefilm	ISO 534	50 micron
Caliper, facefilm + adhesive	ISO 534	80 micron
Tensile strength	DIN 53455	1,0 kN/m
Elongation at break	DIN 53455	150 %
Gloss	ISO 2813, 20°	50 %
Dimensional stability	DIN 30646	0,15 mm. max
Adhesion, initial	FINAT FTM-1, stainless steel	540 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	720 N/m
Flammability		Self extinguishing
Accelerated ageing	SAE J 1960, 2000 hours exposure	No negative impact on film performance
Shelf life	Stored at 22° C/50-55 % RH	2 years
Durability ²	Vertical exposure	
White + Black		12 years
Colours + Transparent		10 years
Metallics		6 years

Temperature range

Features	Results
Application temperature	Minimum: +10°C
Service temperature	-50°C to +110°C

Chemical properties

Features	Test method ¹	Results
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 5609:1978)	1 year half tide immersion	No effect
Chemical/Solvent resistance		
Test fluid:	Immersion time:	Adhesion:
Gasoline	1 hour	400 N/m
Diesel oil /Transformer oil/ Antifreeze /SAE Motoroil/Kerosene	24 hours	500 N/m
Distilled water 65°C	24 hours	600 N/m
Detergent solution 65°C	8 hours	600 N/m

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 prevail.

Warranty

Avery® branded 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 any guarantee, warranty, or make any representation contrary to the foregoing.

All Avery® branded materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

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.



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