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. 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.

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

- Superb conformability to irregular surfaces:
    - Deep channels and concave shaped
    - Extremely convex shaped
    - Compound (concave and convex) shaped
    - Excellent performance in corrugations
        - Excellent performance 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

Recommendations for use

- 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

Avery Dennison® 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.

PRODUCT CHARACTERISTICS

Avery Dennison® 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	FINAT FTM 14	0,15 mm. max
Adhesion, initial	FINAT FTM-1, stainless steel	540 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	600 N/m
Flammability		Self extinguishing
Accelerated ageing	SAE J 1960, 2000 hours exposure	No negative impact
Shelf life	Stored at 22° C/50-55 % RH	2 years
Durability[2]	Vertical exposure only	
White + Black		12 years
Colours		10 years
Metallic		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 65ºC	24 hours	600 N/m
Detergent solution 65ºC	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.

Warranty

Avery Dennison® 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 authorized to give any guarantee, warranty, or make any representation contrary to the foregoing.

All Avery Dennison® 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.