# **Avery Dennison® Automotive Films**

## TECHNICAL INFORMATION

# Avery Dennison® 2100EA White

**Description :** Face film : Flexible polymeric plasticised glossy PVC film.

Adhesive : High performance, acrylic based adhesive for Easy

Application.

Backing paper: Two side polyethylene coated white kraft paper

**Conversion :** Avery Dennison 2100EA White has excellent die and kiss cutting properties.

Avery Dennison 2100EA White can also be screen printed, using high quality

vinyl or acrylic based inks common to the screen printing industry.

\*Occasionally, in order to achieve the best quality print results, pre-treatment (IPA wipe, corona) of the product is

advised.

**Features:** Excellent printability properties.

Outstanding durability and outdoor performance Dimensionally stable backing for easy conversion.

Excellent dimensional stability during use.

Excellent UV-light, humidity and saltspray resistance.

**Uses:** Avery Dennison 2100EA White has especially been developed for the

automotive and motorbike industry for use in screen printed decorative

graphics.

**Shelf life:** When stored in original packaging upon arrival at the customer: 6 months.

Storage conditions should be 20  $^{\circ}$ C (+/- 2  $^{\circ}$ C) with 50  $^{\circ}$ RH (+/5%)



# Physical and chemical characteristics

General:	Test reference	Value
Caliper, facefilm	ASTM D1000	75 micron
Tensile strength	ASTM D882	>1200N/m
Elongation at break	ASTM D882	> 200 %
Mill. spec. shrinkage 1)		< 0.3 %

<sup>1)</sup> Shrinkage is measured on a 150 x 150 mm aluminium panel to which the specimen has been applied. After 72 hrs. 23° C + 1 week 70° C the shrinkage is measured.

### Adhesive properties

Peel adhesion after		
20 minutes	ASTM D 1000	> 560 N/m
24 hours		> 720 N/m
1 week 70° C		> 720m <sup>2</sup> ) <sup>3</sup> )
250 hrs. 40° C, 98% R.H.		$> 720m^2)^3$
250 hrs water immersion		> 720m <sup>2</sup> ) <sup>3</sup> )

- 2) Test initiated after 48 hrs. bonding time
- 3) No significant change in colour, gloss or dimensions

Durability \*

Atlas Weather-o-Meter 1500 hrs. ⁴) grey scale ≥4

<sup>4</sup>) Cycle: 2 hrs. light (40 min., 20 min. + specimen spray. 60 min.)

1 hr. dark (rackspray)

Conditions: Light intensity 0.55 W/m<sup>2</sup> at 340 nm: black panel temperature = 70° C.

# Thermal:

Temperature range:	30 min. exposure at 120° C	No significant change in
	3 weeks exposure at 80° C	colour, gloss or dimensions

# Chemical:

Diesel

Visual inspection after exposure to:

Test fluid:	Test reference:	Result:
- 30 minutes gasoline - 1 hour carwash solution		No change No change
<ul><li>1 hour antifreeze</li><li>Hydrochloric acid</li></ul>		No change
0.5N/ltr. H <sub>2</sub> O; 4 hrs.		No change
Visual inspection after drip test <sup>5</sup> ) ASTM – B fluid		No change

<sup>&</sup>lt;sup>5</sup>) 25 mm wide strip mounted on a panel, Bonding Time = 24 hrs., 5 ml. of fluid is dripped over the film + edge. The test is repeated twice at 24 hr. intervals.

No change

No change

## 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 subject to change

#### Warranty:

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

# \*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.



50% isopropyl alcohol/50% water

