Avery Dennison®
Pure Defense PVC Paint Protection Film

Revision: 1 Dated: 01/05/19

Introduction

Avery Dennison Pure Defense PVC is a clear PVC film for protection of vulnerable surfaces such as car paint. The film can be applied to critical areas on the vehicle exterior, against stone chips, road debris, insect stains, heavy use, chemical stains and much more.

Description

Facefilm : 150 micron, specially modified transparent vinyl film
Adhesive: permanent, UV resistant, solvent acrylic base
Liner: One side coated kraft paper, 140 g/m^2

Conversion

Product is designed for vehicle paint and painted surface protection purposes and is easy to size by manual cutting during application, computer cutting plotters and die cutting. Material should be applied using the wet application method for more information please refer to TB. 6.10.

Features:

- High transparent finish
- Good protection characteristics
- Excellent adhesion to car paint
- Allows application to slightly curved car exterior parts
- Up to 5 years durability (vertical, Zone1)

Common Applications:

- Protection of the highly sensitive external surfaces of vehicle like; bumper, side mirrors, hood, wheel arches
- Protection of internal surfaces like, luggage racks or chairs in buses or trains
- Protection of surfaces in high traffic areas like, reception desks, door impact areas, wall panels and more

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PRODUCT CHARACTERISTICS

Physical Properties		
Features	**Test Method[1]**	**Typical Value**
Caliper, Facefilm	ISO 534	150 µm
Califer, Facefilm + Adhesive	ISO 534	180 µm
Caliper, Liner	ISO 534	135 µm
Tensile strength @ Break	ISO 527	> 25 MPa
Dimensional Stability	DIN 30646	0.3 mm max
Elongation @ Break	ISO 527	>150%
Gloss	ISO 2813, 85°	>80 GU
Shelf Life	Stored at 22°C 50-55 % RH	2 years
Application Temperature		Minimum: 10°C
Service Temperature		-40°C to +100°C

Adhesive Properties		
Features	**Test Method[1]**	**Typical Value**
Initial Adhesion 180° (20 min)	FINAT FTM-1, stainless steel	>500 N/m
Ultimate Adhesion 180° (72 hours)	FINAT FTM-1, stainless steel	>720 N/m

Durability[2]			
	Zone 1	**Zone 2**	**Zone 3**
Vertical	5 years	3 years	1.5 years
Horizontal	2.5 years	1.5 years	0.75 year

Chemical Resistance

Visual Inspection after exposure to following test fluids

Gasoline Resistance	30 minutes	No Significant Change
Water & Soap	24 hours	No Significant Change
Cleaning Fluid	1 hour	No Significant Change
Motor Oil	24 hours	No Significant 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 are subject to change.

Warranty
All Avery Dennison statements, technical information and recommendations are based on tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold with the understanding that purchaser has independently determined the suitability of such products for its purposes.
All Avery Dennison's products are sold subject to Avery Dennison's general terms and conditions of sale, see http://terms.europe.averydennison.com.

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

2) Durability
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, in industrially polluted areas or high altitudes, exterior performance will be decreased.