PRODUCT DATA SHEET

Avery Dennison[®] Pure Defense PU Paint Protection Film

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Introduction

AD Pure Defense PU paint protection film is a general purpose clear polyurethane film that is designed to protect a vehicle's finish against stone chips, road debris, insect stains, heavy use, chemical stains and weathering without degrading the original paint work. AD Pure Defense PU paint protection film can be used to invisibly protect external paint finishes of all types of vehicles and also internal surfaces like, high impact areas, luggage racks and reception desks.

Conversion

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

Recommendations

- 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 busses or trains
- · Protection of surfaces in high traffic areas like, reception desks, door impact areas, wall panels and more

Features

- High Gloss, 150my PU film
- High transparent finish
- Uniformity of the surface
- Flexible (suitable for bumper and wing mirror applications)
- Has self healing feature with heat trigger
- Up to 8 years durability (vertical, Zone1)







Face Film 150 micron, clear polyurethane



Adhesive Permanent, UV resistant, solvent acrylic base



Backing PET liner



Durability Vertical Zone 1, 8 years



Shelf Life 2 years Stored at 22°C 50-55 % RH

Physical Characteristics

2		Test method ¹		Results	
Product					
Caliper, Facefilm (w/o protection sheet)(micron)		ISO 534		150	
Caliper, facefilm + adhesive (micron)		ISO 534		185	
Caliper, Liner (micron)		ISO 534		75	
Dimensional stability (mm max.)		DIN 30646		0.15	
Shelf life (years)		Stored at 22° C/50-55 % RH		2	
Adhesive					
Tensile strength @ Break (MPa)		ISO 527		> 35	
Elongation @ Break (%)		ISO 527		>150	
Adhesion, initial 180° 20 min (N/m)		FINAT FTM-1, stainless steel		400	
Adhesion, ultimate 180° 72 hours (N/m)		FINAT FTM-1, stainless steel		700	
Temperature range					
Application temperature (Mi °C)	nimum:			10	
Service temperature (°C to	+°C)			-40 to +100	
Chemical properties ²		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 hours		No Significant Change	
Motor Oil		24 hours		No Significant Change	
Durability ²					
	Zone 1		Zone 2		Zone 3
Vertical	8 years		5 years		2 years
Horizontal	4 years		2.5 years		1 year
	-		-		-
Heat Aging			500 hrs @ 90°C		∆E < 2

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.

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

2) Prolonged immersion in gasoline and similar fluids is not recommended.



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