

PRODUCT DATA SHEET

ADfend™ Pro Matte

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Introduction

ADfend™ Pro Matte is a premium engineered thermoplastic polyurethane (TPU) film that provides a sophisticated, transparent matte finish. It is expertly designed to defend vehicle surfaces from road hazards, small to medium gravel impacts and scratches, bug splatter, bird droppings, and environmental weathering, while preserving the integrity of the underlying paint. This innovative film is equipped with a hydrophobic top coat, offering water repellent and stain-resistant performance. It also incorporates heat-activated “self-healing” technology, allowing minor scratches to disappear when exposed to heat, ensuring the vehicle’s sleek matte aesthetic remains pristine.



Face Film

165 micron matte clear top-coated thermoplastic polyurethane (TPU)



Adhesive

Permanent, acrylic based



Backing

PET liner



Durability

Zone 1 vertical, 10 years



Shelf Life

1 year stored at 22°C 50-55% RH

Conversion

ADfend™ Pro Matte is engineered for smooth vehicle surface protection, allowing for precise sizing via manual cutting or digital plotters. The newly formulated film provides premium conformability and adhesion build-up, empowering installers with higher installation speed when advanced installation techniques are mastered. It should be applied utilizing the standard wet application method. It is also fully compatible for application over previously installed Avery Dennison Supreme Wrapping Film™. Find more application details in the TB 6.0 Application Instructions Avery Dennison® Paint Protection Film.

Recommendations

- » **Automotive Exterior:** Preserving vulnerable external panels including side mirrors, front bumpers, hoods, and wheel arches.
- » **Automotive Interior:** Shielding high-wear internal transit surfaces like train chairs and luggage racks.
- » **Commercial Spaces:** Defending high-traffic impact zones such as wall panels, doors, and reception desks. ADfend™ Pro Matte allows for surface personalization by transforming the original finish into a sleek matte appearance.
- » **Other vehicles application:** ADfend™ Pro Matte can be used to protect motorcycles, bikes, commercial trucks and fleet vehicles, buses, ATV (All-Terrain Vehicle), UTV (Utility Task Vehicle) and caravans.

Features

- » **Next-Generation Top Coat:** Features an advanced hydrophobic layer that delivers superior stain resistance compared to the previous generation, easing maintenance and cleaning.
- » **Enhanced Workability:** Engineered for high conformability and adhesion build-up, increasing installation speed (when installation techniques are mastered).
- » **Premium Durability:** Backed by an up to 10-year expected durability, securing the long-term preservation and value of the vehicle’s finish.
- » **Self-Healing Technology:** Heat-activated recovery helps superficial, everyday scratches seamlessly disappear.
- » **Premium Aesthetics:** Enhances the vehicle’s look with a premium, uniform transparent matte finish.

Physical Characteristics

	Test method ¹	Results	
Product			
Caliper, facefilm + topcoat (micron)	ISO 534	165	
Caliper, facefilm + topcoat + adhesive (micron)	ISO 534	200	
Gloss (GU)	ISO 2813, 60°	15	
Dimensional stability (mm max.)	FINAT FTM 14	<0..1%	
Shelf life (years)	Stored at 22° C/50-55 % RH	1	
Adhesive			
Tensile strength(MPa)	ISO 527	>16	
Elongation (%)	ISO 527	>250	
Adhesion, initial 20 min (N/m)	FINAT FTM-1, stainless steel	>630	
Adhesion, after 24 hours (N/m)	FINAT FTM-1, stainless steel	>790	
Temperature range			
Application temperature (Minimum: °C)		10	
Service temperature (°C to +°C)		-40 to +100	
Chemical properties²			
Visual Inspection after immersion in following liquids for 30 minutes			
Gasoline		No significant change	
Car wash solution		No significant change	
Anti-freeze		No significant change	
Diesel		No significant change	
Isopropyl alcohol		No significant change	
Heptane		No significant change	
10% Sulphuric acid		No significant change	
Other tests			
Heat aging	500h @90°C	No significant change	
Water Immersion	400h @40°C	No significant change	
Durability (years)			
	Zone 1	Zone 2	Zone 3
Vertical	10	8	6
Horizontal	7	4	3

Avery Dennison B.V., Willem Einthovenstraat 11, 2342 BH Oegstgeest, The Netherlands

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 follow standardized norms as indicated

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

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