PRODUCT DATA SHEET

ADfend™ Pro

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Introduction

ADfend™ Pro is a premium engineered thermoplastic polyurethane (TPU) film offering a clear, high-gloss finish. It is purpose-built to shield vehicle surfaces from road hazards, small to medium gravel impacts and scratches, bug splatter, bird droppings, and environmental weathering without compromising the original paint. Delivering advanced surface defense, this film features an advanced hydrophobic top coat that delivers premium stain-resistant and water repellent performance. Additionally, its heat-activated “self-healing” properties are designed to help small surface scratches disappear when heat is applied, maintaining a showroom-quality appearance.



Face Film
165 micron gloss clear top-coated thermoplastic polyurethane (TPU) with a PET protective sheet



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 is designed specifically for vehicle surface protection and can be processed using digital cutting plotters or manually sized during the application process. The newly formulated film provides premium conformability and adhesion build-up, empowering installers with higher installation speed when advanced installation techniques are mastered. Installers must use the standard wet application method for optimal results. Furthermore, ADfend™ Pro is fully compatible and can be confidently applied over pre-existing Avery Dennison Supreme Wrapping Film™ installations. Find more application details in the TB 6.0 Application Instructions Avery Dennison® Paint Protection Films

Recommendations

- **Automotive Exterior**: Shielding highly sensitive exterior zones such as hoods, bumpers, wheel arches, and side mirrors.
- **Automotive Interior**: Safeguarding interior painted metal components like luggage racks or transit seating.
- **Commercial Spaces**: Protecting painted surfaces in high-traffic commercial areas, including door impact zones and reception panels.
- **Other vehicles application**: ADfend™ Pro 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**: Upgrades the vehicle’s look by delivering optical clarity and a brilliant high-gloss finish.

Physical Characteristics

	Test method[1]	Results
Product		
Caliper, facefilm (micron)	ISO 534	160
Caliper, facefilm + topcoat+ adhesive (micron)	ISO 534	200
Gloss (GU)	ISO 2813, 60°	90
Dimensional stability	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 STST (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 properties[2]		
Visual Inspection after immersion in following liquids for 30 minutes		
Gasoline		No significant change
Carwash solution		No significant change
Antifreeze		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

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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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