

Advanced Cool Series Automotive Window Film

Revision 2

Introduction

Avery Dennison® Advanced Cool is a high-performance metal-dye hybrid film range available with different light transmission levels. With a sleek phantom black color, Advanced Cool film protects against heat, glare and harmful UV radiation. The film is optimised with metallized polyester and colour-stable dye to ensure low exterior reflectiveness.



Face Film

1.5-2.0 mil Phantom Black PET (polyester) – Metal-Dye Hybrid combined with UV Stable Dye



Backing

PET (polyester)



Shelf Life

When stored in original packaging upon arrival at the customer: 2 years.
Recommended Storage conditions are 25 °C (± 10 °C) with 50 %RH (± 10%)



Adhesive

Pressure Sensitive Adhesive (PSA)
Permanent - solvent acrylic



Warranty

Lifetime*
*Limited to original private car owner.

Features

- Premium hybrid film: giving premium heat & glare reduction with minimal mirror effect
- Excellent UV blocks >99%
- Excellent handling with controlled shrink
- Scratch-resistant hardcoat for scratch-free installation and maintenance.
- Exceptional solar performance
- Superior aesthetics, ultimate clarity and colour stability
- Hassle-free without interference with most electronic devices
- Stable performance
- Available in a broad range of light transmission levels to suit your preference

Conversion

Product is designed for automotive window tinting purposes and is easy to size by manual cutting during application. Material should be applied using the wet application method.

Recommendations

Common applications are on the internal side of glass substrate of:

- Personal Vehicles
- Commercial and Fleet Vehicles

Before applying the product, the user shall determine the suitability of the product for its intended use. The user shall ensure that the application and the intended use of the product is in accordance with any and all applicable laws and regulations concerning the use of automotive window film, and user assumes all risk and liability in connection therewith.

Optical & Solar Properties

	Advanced Cool 05	Advanced Cool 15	Advanced Cool 20	Advanced Cool 30	Advanced Cool 35	Advanced Cool 70	Advanced Cool 75
Visible Light Transmitted (VLT)	5%	15%	16%	26%	39%	72%	74%
Visible Light Reflected	6%	6%	6%	6%	6%	11%	8%
Ultra Violet Block	99%	99%	99%	99%	99%	99%	99%
Total Solar Energy Rejected (TSER)	63%	60%	48%	45%	47%	32%	34%

Performance results are calculated on 6mm clear glass using NFRC methodology and LBNL Window 5.2 software, and are subject to variations in process conditions within industry.

Definitions

Visible Light Transmitted (VLT)

The percentage of total visible light (380-780 nanometers) to be passed through a glazing system. Test method - ASTM E 903-96.

Visible Light Reflected (VLR)

The percentage of total visible light to be reflected by a glazing system. Test method - ASTM E 903-96.

Ultraviolet Block

The percentage of Ultraviolet radiation (300-380 nanometers) to be blocked by a glazing system. Ultraviolet is one portion of the total solar energy spectrum which greatly contributes to fading and deterioration of fabric and furnishings.

Glare Reduction

Glare usually defined as being the difficulty of seeing in the presence of bright light such as direct or reflected sunlight or artificial light such as car headlamps at night. Window film can provide glare reduction of up to 95%.

Total Solar Energy Rejected (TSER)

Measures the window film's ability to reject solar energy in the form of visible light, infrared radiation and ultraviolet light. The higher the TSER number, the more solar energy is rejected away from the window.



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