



Automotive Window Film Alpha Plus Series

Data Sheet

Introduction

Alpha Plus is a high-performing, metal-dye hybrid film range that is precisely engineered from layers of aluminum and dye to give exceptional heat and glare protection with minimal mirror effect. The result is a high solar protection, providing cool and comfortable interior, low reflectance, long-lasting color and look, and good installation features. Alpha Plus is available in a range of four light transmissions, from high privacy 05% through to a subtle 36%.

Typical Usage

Alpha Plus is a high performance film designed for automotive window tinting. The film must be applied on the internal side of the windows of vehicles by employing wet application techniques.

Before the application of the film, the user shall determine if the intended use is in compliance with the applicable laws and regulations related to automotive window tinting films, assuming all risk and liability in connection therewith.

Product Construction

Face: 38 micron (1.5 mil) Charcoal Graphite PET- Dye Hybrid combined with UV Stable Dye

Adhesive: Permanent - Solvent based acrylic

Liner: PET

Certificates

- Allgemeine Bauartgenehmigung (ABG) - ABG number D 5420*01
- Portuguese homologation
- Spanish homologation
- Czech homologation



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Key Features

- Hybrid film - Alpha Plus provides heat & glare protection with minimal mirror effect.
- Apply fast - Alpha Plus provides great ease of handling, shrink and installation features.
- Feel cool - Alpha Plus automotive films filter heat and glare for a more pleasant passenger experience and reduced air-conditioning load.
- Look cool - Choose from a variety of shades and light transmission levels to give your vehicle a custom appearance. Superior aesthetics, excellent clarity and color stability.
- Protect Yourself- Alpha Plus rejects 99% and over of harmful UV radiation*.
- Protect your car - Protect trim, upholstery, carpets and fittings from the heat, light and UV radiation that cause fading, so your car looks better longer and maintains its value.
- Stay Safe - Alpha Plus films can help reduce the risk of injury from broken glass caused by projectiles, minor accidents or road debris.
- Stay Private - Tinted films keep your possessions out of sight.
- Stop Squinting - Cuts glare from the sun or from headlights to reduce eyestrain on long trips and in busy city traffic.

Self-life

When stored in original packaging upon arrival at the customer: 2 years. Recommended Storage conditions are 20 °C (± 2 °C) with 50 %RH (± 5 %)



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Film Performance

Durability in Years**: 5 Years

	Alpha Plus 05	Alpha Plus 12	Alpha Plus 20	Alpha Plus 36
Visible Light Transmitted %	6 %	14 %	30 %	38 %
Visible Light Reflected	7 %	7 %	8 %	8 %
UV Block %	99 %	99 %	99 %	99 %
Total Solar Energy Reflected %	8 %	10 %	10 %	10 %
Total Solar Energy Transmitted %	17 %	26 %	33 %	30 %
Total Solar Energy Absorbed %	75 %	64 %	57 %	51 %
IR Energy Rejection %	53 %	42 %	41 %	39 %
Selective IR Rejection	72 %	56 %	55 %	52 %
Glare Reduction %	94 %	85 %	68 %	57 %
Shading Coefficient	0.44	0.53	0.58	0.63
Total Solar Energy Rejected	62 %	55 %	50 %	46 %

*Note: 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.

Disclaimer

** Warranted Durability: The durability is based on middle European exposure conditions. 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 such as southern European countries; in industrially polluted areas or high altitudes, exterior performance will be decreased. With regard to Avery Dennison Architectural Window Film Products, the durability shall not differ between the climatic zones, but the same durability shall apply to all climatic zones. 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

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