

Avery® HP 700 High Performance Calendered Series

Opaque Hi Tack Staflat™

(formerly: A6 and MX Opaque Series Hi Tack)

Revision: 3 Dated: 7/23/2010

Uses:

Avery HP-700 Hi Tack series calendered films are premium quality, flexible, opaque solid color medium gloss vinyl films designed for use in a wide range of signmaking making applications. HP-700 has a HiTack proprietary adhesive system designed for use in demanding applications. The adhesive system is ideally suited for use on low energy substrates such as plastics, powder coat paints, fiberglass, painted metals and Krystal Kote™ surfaces. This product is ideal for a variety of intermediate term outdoor projects.



Face: 3.0 mil (76 microns) semi gloss calendered film HP 700-101

Face: 3.5 mil (88.9 microns) matte calendered film HP 700-102

Adhesive: HiTack Permanent Clear Acrylic



Liner: StaFlat™



Durability: Up to 6 years



Application Surfaces:

Flat, Simple Curves

Features:

- Outstanding durability and outdoor performance
- Dimensionally stable liner for easy converting
- Medium gloss finish
- Excellent conversion on CAD plotters
- Easy cutting & weeding
- Good dimensional stability
- Good UV, temperature, humidity, and salt-spray resistance
- HiTack adhesive for difficult substrates

Conversion:

- Thermal Die-Cutting
- Flat Bed Sign-Cut
- Drum Roller Sign-Cut
- Steel Rule Die-Cutting

- Thermal Transfer
- Screen Printing
- Cold Overlaminating
- Water based inkjet

- Solvent based inkjet
- Mild/Eco Solvent inkjet
- UV inkjet

Common Applications:

Trucks
Trailers
Cars & Vans
Architectural Signage
Trains & light rail
Buses
OEM durable decals

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Physical Characteristics:

Property		Value
Caliper, face	HP 700-101	3.0 mil (76 µm)
	HP 700-102	3.5 mil (88.9µm)
Caliper, adhesive		1.0mil (25 µm)
Dimensional stability		<0.035"(0.892.5mm)
Tensile at Yield		9.0 -15.0 lb/in (1.6 - 2.7 kg/cm)
Elongation		100% min.
Gloss		70% +/- 2
Adhesion: 24 hr.		4.0 lbs/in (700 N/m)
	1 Week	5.0 lbs/in (875 N/m)
Flammability		Self Extinguishing
Shelf-Life		1 year
Durability	Vertical Exposure	6 years
	Opacity	700-101 White 93%
	700-102 Matte White	99.5%
Min. Application Temperature		40° F (4° C)
Service Temperature		-40° - 180°F (-40° - 82° C) (Reasonable range of temperatures which would be expected under normal environmental conditions).
Chemical resistance		Resistant to most mild acids, alkalis, and salt solutions. Resists exposure to fuel vapors and occasional fuel spills.

Important:

Information on physical and chemical characteristics are based on tests believed to be reliable. The values are intended only as a source of information. This information is given without guaranty and do not constitute a warranty. The purchaser should independently determine, prior to use, the suitability of any material for their specific purpose. (Data represents average values where applicable, and is not intended for specification purposes)

Warranty:

All statements, technical information and recommendations about Avery Dennison products are based upon tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold with the understanding that Purchaser has independently determined the suitability of such products for its purposes. Avery Dennison products are warranted to be free from defects in material and workmanship for either one year (or the period stated on the specific product information literature in effect at time of delivery, if longer) from date of shipment if said product is properly stored and applied. It is expressly agreed and understood that Avery Dennison's sole obligation and Purchaser's exclusive remedy under this warranty, under any other warranty, express or implied, or otherwise, shall be limited to repair or replacement of defective product without charge at Avery Dennison's plant or at the location of product (at Avery Dennison's election), or in the event replacement or repairs is not commercially practical, to Avery Dennison's issuing Purchaser a credit reasonable in light of the defect in the product.

Avery Dennison's liability for defective products shall not exceed the purchase price paid therefore by Purchaser and in no event shall Avery Dennison be responsible for any incidental or consequential damages whether foreseeable or not, caused by defects in such product, whether such damage occurs or is discovered before or after replacement or credit, and whether or not such damage is caused by Avery Dennison's negligence.

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Colors: Cross Reference

A 6 Series MX Series	AVERY 700 High Performance CALENDERED OPAQUE PERMANENT StaFlat		
A6001-O White MX4001, MX3400	HP 700-101-O White HP 700-102 Matte White		

Dimensional stability:

Is measured on a 6" x 6" (150 x 150 mm) aluminum panel to which a specimen has been applied; 72 hours after application the panel is scored in a cross pattern, exposed for 48 hours to 150°F (65°C), after which the shrinkage is measured.

Adhesion:

(FTM-1, FINAT) is measured by peeling a specimen at a 180° angle from a stainless steel panel, 24 hours after the specimen has been applied under standardized conditions. Initial adhesion is measured 15 minutes after application of the specimen.

Flammability:

A specimen applied to aluminum is subjected to the flame of a gas burner for 15 seconds. The film should stop burning within 15 seconds after removal from the flame.

Temperature range:

A specimen applied to stainless steel is exposed at high and low temperatures and brought back to room temperature. 1 hour after exposure the specimen is examined for any deterioration. Note: Prolonged exposure to high and low temperatures in the presence of chemicals such as solvents, acids, dyes, etc. may eventually cause deterioration.

Chemical Resistance:

All chemical tests are conducted with test panels to which a specimen has been applied. 72 hours after application the panels are immersed in the test fluid for the given test period. 1 hour after removing the panel from the fluid, the specimen is examined for any deterioration.

Revisions are italicized

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Krystal Kote is a registered trademark of Eli Lilly Co.

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