

Avery Dennison® HP 700 High Performance Calendered Series

Opaque Permanent StaFlat

(formerly: MX3200 Series Permanent & A6 Opaque Series – 90#)

Revision: 5 Dated: 09/20/16

Uses:

Avery Dennison® HP700 series calendered films are premium quality, flexible, opaque solid color gloss, semi-gloss or matte vinyl films designed for use in a wide range of screen printed applications. This product is ideal for a variety of intermediate term outdoor projects where a general purpose permanent adhesive is needed. The full constructions have different levels of opacity, and must be reviewed prior to ordering to ensure the product meets the needs of the end use application.



Face: Varies – see below



Adhesive: Permanent Clear or Gray Acrylic



Liner:90# 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

Conversion:

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

Common Applications:

- Trucks
- Trailers
- Cars & Vans
- Banners
- Architectural Signage
- Directional Signage
- Trains & light rail
- OEM Graphics
- Heavy Equipment decals
- Outdoor advertising
- Vending Machines

Product Data Sheet

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Physical Characteristics:

Property		Value
Caliper, face	Gloss	3.0 mil (78 µm)
		HP700-101 White
		HP700-103 Clear HP700-190 Black
3.4 mil (86 µm) matte calendered (HP 700-102)	Semi-Gloss	3.2 mil (81 µm) HP700-106 White
	Matte	3.4 mil (86 µm) HP700-102
Caliper, adhesive		1.0mil (25 µm)
Dimensional stability		<0.03"(0.765mm)
Tensile at Yield		9.0 -15.0 lb/in (1.6 - 2.7 kg/cm)
Elongation		100% min.
Gloss	Gloss	70
	Semi-gloss	50
	Matte	15
Adhesion: 15 min.		3.0 lbs/in (525 N/m)
	24 hr.	4.4 lbs/in (770 N/m)
Flammability		Self Extinguishing
Shelf-Life		<i>2 years from date of manufacture when stored at the following temperatures and humidity conditions 68°-77° F (20° - 25° C) and 50±5% R. H.</i>
Durability		<i>Reference color and warranty charts in this data sheet.</i>
Min. Application Temperature		50° F (10° C)
Service Temperature		-40° to 180°F (-40° to 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.

Data represents average values where applicable, and is not intended for specification purposes.

Warranty:

This Warranty applies to the Product listed in this Data Sheet. All statements, technical information (including physical and chemical characteristics) 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 subject to the Purchaser's assent and agreement that Purchaser is responsible for, and has independently determined, the suitability of such products for its purposes or its customer's purposes. Avery Dennison products are warranted to be free from defects in material and workmanship (i) for two years from the date of manufacture, or (ii) from the date of manufacture until the expiration of the period stated on the specific Product Data Sheet in effect at the time of delivery. Such time periods are subject in either case to the proper storing and application of said product, and the failure to properly store or apply the product, including without limitation the failure to follow any applicable Instructional Bulletin, negates any warranty. 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 exclusively to: (a) repair or replacement of defective product without charge at Avery Dennison's plant or at the location of the product (at Avery Dennison's election), or (b) in the event repair or replacement are not commercially practical, a credit amount up to the price of the product taking into account the defect in the product in Avery Dennison's sole discretion.

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Colors Cross Reference:

HP 700 Series Name	Item #'s	Vertical Durability Zone 1 Years
HP 700-101-O White Perm SF <i>(formerly A6001-O white)</i>	6100SFO	6
HP 700-102-O Matte White Perm SF <i>(formerly MX3400 white)</i>	6002SFO	6
HP 700-103-O Clear Perm SF <i>(formerly A6003-O clear)</i>	6003SFO	4

HP 700 Series Name	Item #'s	Vertical Durability Zone 1 Years
HP 700-106-O White Semi Gloss Perm SF <i>(MX3200 white)</i>	6004SFO	6
HP 700-190-O Black Perm SF	6090SFO	6

Discontinued Colors:

HP 700 Series Name	Item #'s	Vertical Durability Zone 1 Years
HP 700-108-O Matte White Perm SF <i>(formerly MX3400 true opaque)</i>		6

HP 700 Series Name	Item #'s	Vertical Durability Zone 1 Years
HP700-185-O Black		6

NOTE: Some color fade may occur in severe environmental areas. Reference IB 1.30 for durability guidelines.

Revisions are italicized

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