

Avery[®] MPI 1005 Supercast Series

LTR StaFlat

Revision: 2 Dated: 12/08/2010

Uses:

Avery MPI 1005 Supercast Series Vinyl is a premium gloss opaque vinyl designed for use in fleet marking and vehicle wrap as well as corporate identity applications. MPI 1005 Supercast provides superior conformability to irregular surfaces such as compound curves and corrugations Easy Apply and Easy Apply RS features offer the benefits of reduced wrinkling and air entrapment inherent in the application of decals. The RS feature also provides repositionability and slideability for exact positioning.



Face: 2.0 mil (51 microns) high gloss cast film



Adhesive: Long Term Removable Acrylic (gray)



Liner: 90# Smooth StaFlat
90# Easy Apply
90# Easy Apply RS



Durability: Up to 10 years (unprinted)

Application Surfaces:

Flat, Flat with Rivets, Corrugations, Complex Curves (vehicle wraps)

Features:

- Superior conformability to irregular substrates
- The air egress technology on Easy Apply and Easy Apply RS films helps eliminate wrinkles and bubbles
- RS feature provides slideability allows for easy positioning
- High gloss finish
- Outstanding durability and outdoor performance
- Dimensionally stable liner for easy converting
- Excellent dimensional stability
- Long term removable provides permanent adhesion, but removes cleanly
- ICC profiles available on Avery website (www.iccprofiles.averygraphics.com)

Conversion:

- Thermal Die-Cutting (90# smooth only)
- 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 (flat applications only)
- Latex Inkjet*

Common Applications:

- Fleet
- Vehicle
- Marine/ Watercraft (90# Smooth or EZ only)

- Backlit Signs
- Wall Murals (90# Smooth Only)
- POP/ Tradeshow

- Window Graphics
- Outdoor Signage
- Floor Graphics



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Physical Characteristics:

Property	Value	
Caliper, face	2.0 mil (51 µm)	
Caliper, adhesive	1.0 mil (25 µm)	
Dimensional stability	<0.015" (0.4mm)	
Tensile at Yield	Note: Ink loads in excess of 250% may cause increased shrinkage of the printed film. 4.0 - 8.0 lb/in (0.7-1.5 kg/cm)	
Elongation	200% min.	
Gloss	Hunter Gloss @ 60 degrees	90
Adhesion:	90# Smooth	
	15 min	2.7 lbs/in (473 N/m)
	24 hr	3.5 lbs/in (613 N/m)
	1 week	4.4 lbs/in (770 N/m)
	Easy Apply	
	15 min	1.8 lbs/in (315 N/m)
	24 hr	2.1 lbs/in (367 N/m)
	1 week	4.0 lbs/in (700 N/m)
	Easy Apply RS	
	15 min	1.8 lbs/in (315 N/m)
	24 hr	2.1 lbs/in (367 N/m)
	1 week	4.0 lbs/in (700 N/m)
Flammability	Self Extinguishing	
Shelf-Life	1 year	
Durability	Vertical Exposure	Unprinted – 10 years Printed – Up to 5 years
Min. Application Temperature	45° F (7° C) Flat & Flat w/Rivets 50° F (10° C) Corrugations	
Service Temperature	-50° - 180°F (-45° - 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.	

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 warranty 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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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.

Related Documents:

The following Avery Dennison literature will provide complete information to the user for proper application, storage, and other requirements and is available upon request from your Avery Dennison representative or from the Avery Dennison website (www.na.averygraphics.com).

Document Title	Reference Number
Substrate Cleaning and Preparation	Instructional Bulletin #1.10
Storage, Maintenance, and Cleaning of PVC Films	Instructional Bulletin #1.20
Application of Avery Supercast Films on Irregular Substrates	Instructional Bulletin #4.07
Multi Purpose Ink Jet OEM Qualification Matrix, Durability Reference, & Troubleshooting Guide	Instructional Bulletin #5.80
Premask Recommendations	Instructional Bulletin #5.50
Removal Instructions	Instructional Bulletin #4.10

Revisions are italicized

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Patent Info: May be covered by one or more patents US6,630,049, US7,060,351, US7,344,618, US7,332,205, EP1276605, EP1282472 and other US and foreign patents pending and others used under license.



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