

Avery Dennison® DOL 6960 Clear Polyester

40# Bleached Glassine Paper
Revision: 0 Dated: 06/18/14

Uses:

Avery Dennison® DOL 6960 Clear Rigid Gloss Polyester Film designed for use as a protective overlamine film. DOL 6960 Clear Rigid Gloss Polyester offers an exceptional value for applications requiring high gloss finish and improved scratch resistance.



Face: 2 mil mil (51 microns) high gloss polyester film



Adhesive: Permanent Acrylic (clear)



Liner: 2.08 mil (53 micron) 40# Bleached Glassine Paper.



Durability: Up to 1 year

Application Surfaces:

Flat

Features:

- High gloss finish
- Protects image from scratches
- Enhances color and depth of image
- Dimensionally stable liner for easy converting
- Excellent dimensional stability
- Aids in application of printed graphic
- Environmentally responsible alternative films compared to traditional self-adhesive PVC films.
- Meets CPSIA standards for limitations on lead and phthalates

Conversion:

- Cold Overlaminating
- Flat Bed Sign-Cut
- Drum Roller Sign-Cut
- Steel Rule Die-Cutting

Common Applications:

- Architectural Signage
- Directional Signage
- Pump Skirts
- Emergency Vehicles
- Trains and Light Rail
- Buses
- Outdoor Advertising
- Nameplates
- Emblems

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Physical Characteristics:

Property	Value	
Caliper, face	2.0 mil (51 µm)	
Caliper, adhesive	1.0mil (25 µm)	
Dimensional stability	Excellent. Determined by measuring shrinkage of film applied to 36 in. ² (232 cm) aluminum test panel after 72 hrs aging at 73° F (23° C) followed by 48 hrs at 150° F (65° C)	
Tensile at Yield		
Elongation		
Gloss	Hunter Gloss @ 60	90 ±10
Adhesion:		
15 min.	Stainless Steel	4.3 lbs/in (745 N/m)
Flammability	Self Extinguishing	
Shelf-Life	1 year from date on label	
Durability	Vertical Exposure	Up to 1 years
Min. Application Temperature	40° F (4° C)	
Service Temperature	-40° F to 257° F (-40° C to 125° C) (Reasonable range of temperatures which would be expected under normal environmental conditions).	
Chemical resistance	Resistant to most mild acids, alkalis, and salt solutions.	

Chemical	Adhesion to Stainless Steel		Visual Appearance	Edge Penetration mm
	lbs/in	N/m		
1. 70% IPA	5.1	897	No Change	0
2. Tide® Detergent	4.6	798	No Change	0
3. Engine Oil (10W30)	4.8	845	No Change	0
4. Water	2.3	404	No Change	0
5. Amonia pH 11	1.9	326	No Change	0
6. 409® Cleaner	2.4	426	No Change	3.1
7. Toluene	2.1	371	No Change	6.4
8. Brake Fluid	5.0	873	No Change	0
9. Reference Fuel C	3.2	558	No Change	3.3
10. Kerosene K1	4.3	759	No Change	3.1
11. Heplane	3.8	668	No Change	0

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.

NO EXPRESS WARRANTIES AND NO IMPLIED WARRANTIES, WHETHER OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE, OR OTHERWISE (EXCEPT AS TO TITLE), OTHER THAN THOSE EXPRESSLY SET FORTH ABOVE WHICH ARE MADE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, SHALL APPLY TO PRODUCTS SOLD BY AVERY DENNISON. AVERY DENNISON SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER SUCH WARRANTIES. NO WAIVER, ALTERATION, ADDITION OR MODIFICATION OF THE FOREGOING CONDITIONS SHALL BE VALID UNLESS MADE IN WRITING AND MANUALLY SIGNED BY AN OFFICER OF AVERY DENNISON.

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Specification/Certification Compliance:

- **RoHS/Regulation 2002/95/EU**

The substances listed in article 4 lid 1 of 2002/95/EU (RoHS) are not intentionally used in this product. The concentration limits of these substances will not exceed the set maximum concentration limits as provided in the proposed amendment for 2002/95/EU.

Limitation of End Uses:

Certain applications are not recommended or warranted by Avery Dennison®. Unsuitable applications or exposure conditions include:

- Lamination of PVC based MPI print media with DOL 6960 applied to glass is not warranted. The thermal expansion values of the PVC MPI print media, the polyester DOL 6960 and glass differ and based on ink coverage and exposure conditions, the laminated graphic may wrinkle/tunnel after application. This wrinkling/tunneling is not covered under any warranty.

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.

Special Considerations:

Because of the unique properties and varieties of glass, special considerations must be considered for windows and graphic applications. Avery Dennison® accepts no liability for glass breakage.

- Glass absorbs heat when exposed to sunlight. The degree of absorption across windows can vary because of shading, heating, and cooling ventilation, and insulation from window frames. These temperature differences across the window produce stress, which can cause glass breakage. The ability of glass to resist breakage because of temperature stress is affected by window size, glass thickness, glass treatments, quality, and design.
- Window cleaning methods also vary, from the type of cleaners used, to the washing methods employed. Specific chemicals used in window cleaners may affect the adhesion of pressure-sensitive graphics. Power washing methods may impact the adhesion of graphics if the water pressure or temperature exceeds the graphic's adhesion capability.

Revisions are italicized

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