Ball & Doggett

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Product: Avery Dennison® DOL 6460

Clear Polyurethane Laminate



Graphics Solutions

Category: Display & Visual - Solvent, Latex, Eco Solvent

Technical specifications:

Uses:

Avery Dennison DOL 6460 Clear Polyurethane is a premium quality, flexible film designed for use as a protective overlaminate film for screen and digitally printed decals. DOL 6460 Clear offers exceptional values for applications requiring high gloss, abrasion resistance, conformability, and color durability. The gloss film features a synthetic liner that creates a super smooth high gloss finish which provides an overall paint like finish of printed graphics.



Face: 1.5 mil (38 microns) urethane film



Adhesive: Permanent Acrylic (clear)



Liner: 2 mil Transparent Synthetic



Durability: Up to 6 years



Flat, Flat with Rivets, Corrugations, Complex Curves, Deep Recesses (Extreme vehicle wraps)

Features:

- High gloss finish
- Three year horizontal durability
- Protects image from scratches
- Enhances color and depth of image
- Superior conformability to irregular substrates
- Outstanding durability and outdoor performance
- Excellent dimensional stability
- Aids in application of printed graphic
- Excellent UV, temperature, humidity, and salt-spray resistance
- ASTM E-84 Class 1 or A rating
- GREENGUARD Gold Certified

Conversion:

Cold Overlaminating

Plotter Cut (for best results use 60° blade)

Common Applications:

- Fleet
- Vehicle
- Marine/ Watercraft
- POP / Trade Show
- Wall Murals

- Window Graphics
- Outdoor Signage



Physical Characteristics:

| Property | Measurement | Typical Values | |
|---------------------------------|---------------------------|--|--|
| Caliper, face | | 1.5 mil (38 µm) | |
| Caliper, adhesive | | 1.0 mil (25 μm) | |
| Dimensional stability | | <0.015" (0.4mm) | |
| Tensile at Yield | | 4.0 - 8.0 lb/in (0.7–1.5 kg/cm) | |
| Elongation | | 200% min. | |
| Gloss | Hunter Gloss @ 60 degrees | 90 GU | |
| Adhesion: | 15 min 24 hr | 3.0 lbs/in (525 N/m) 4.0 lbs/in (700 N/m) | |
| Flammability | Self Extinguishing | ASTM E84 Class 1 or A rating | |
| Shelf-Life | | 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.) | |
| Durability | Vertical Exposure | Zone 1 Zone 2 Zone 3 6 4.8 2.4 3 2.4 1.2 see ICS Performance Guarantee for printer specific durability | |
| Min. Application Temperature | | 40° F (4° 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 including water. Resists Petroleum Vapors | |

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



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Warranty:

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IMPORTANT INFORMATION:

Isopropyl Alcohol (IPA) along with some strong solvents and acids react with the urethane film. Prolonged exposure (soaked cloth, immersion, etc.) should be avoided to prevent damage to the film. Brief exposure with IPA to clean the surface is possible as long as the exposed area is wiped dry with a clean cloth immediately after. It is highly recommended that all cleaning liquids be properly tested to ensure compatibility with the film.

Fuel (gasoline) spills should be cleaned immediately. Rinse the area with water or a mild detergent and water mix and dry.

Special Considerations:

When overlaminating UV printed graphics: Heat assist and increasing lamination pressure when applying the overlaminate will reduce the silvering that can occur when laminating UV printed graphics. Do not exceed 115° F (46° C) on the top or bottom roll. Roll pressure up to 100 psi may be used. When applying the overlaminate in this manner, use the minimum amount of unwind tension on the overlaminate to reduce stretching during application.

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.graphics.averydennison.com).

| Document Title | Reference Number |
|--|------------------------------|
| Substrate Cleaning and Preparation | Instructional Bulletin #1.10 |
| Storage, Maintenance, and Cleaning of PVC Films | Instructional Bulletin #1.20 |
| Warranty of Films | Instructional Bulletin #1.30 |
| Cleaning and Maintenance of Vehicle Wraps | Instructional Bulletin #1.50 |
| Tips for Overlaminating, Premasking & Packaging Graphics | Instructional Bulletin #5.50 |
| Removal Instructions | Instructional Bulletin #4.10 |

Revisions are italicized

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