

Avery Dennison® DOL6460 / 6470 Clear Polyurethane Laminate

Transparent Synthetic

Revision: 11 Dated: 02/23/23

Uses:

Avery Dennison DOL 6460 Clear Gloss and 6470 Clear Luster Polyurethane is a premium quality, flexible film designed for use as a protective overlamine film for screen and digitally printed decals. DOL 6460 and 6470 offer exceptional values for applications requiring 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:
DOL6460 -2 mil Transparent Synthetic
DOL6470 - kraft



Durability: Up to 6 years

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

Features:

- High gloss finish - DOL6460
- Luster finish - DOL6470
- 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

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

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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 | DOL6460 - 90 GU DOL6470 - 15GU | | | | | | | | | |
| Adhesion: | 15 min 24 hr | 3.0 lbs/in (525 N/m) 4.0 lbs/in (700 N/m) | | | | | | | | | |
| Flammability | ASTM E84 | Self Extinguishing DOL6460 Class 1 or A rating DOL6470 Class 1 or A rating | | | | | | | | | |
| Shelf-Life | | 2 years from the 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 Horizontal Exposure | <table border="1"> <thead> <tr> <th>Zone 1</th> <th>Zone 2</th> <th>Zone 3</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>4.8</td> <td>2.4</td> </tr> <tr> <td>3</td> <td>2.4</td> <td>1.2</td> </tr> </tbody> </table> <p>see ICS Performance Guarantee for printer specific durability Reference IB 1.30 for zone information.</p> | Zone 1 | Zone 2 | Zone 3 | 6 | 4.8 | 2.4 | 3 | 2.4 | 1.2 |
| Zone 1 | Zone 2 | Zone 3 | | | | | | | | | |
| 6 | 4.8 | 2.4 | | | | | | | | | |
| 3 | 2.4 | 1.2 | | | | | | | | | |
| 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 | | | | | | | | | |
| Compliance | | California Proposition 65 | | | | | | | | | |

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

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www.graphics.averydennison.com
Customer Service: 800-282-8379

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IMPORTANT INFORMATION:

Due to their inherent high water vapor transmission, urethane films are more prone to develop fungal growth in high temperature, high humidity environments. Film cosmetic issues caused by the formation of mold, mildew, or other fungal growth is not warranted.

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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