

# Product Data Bulletin

## MPI 3000 Series Promotional Calendered Film (Revision 4)

Dated: 09/13/01

### Description:

Avery Dennison™ MPI 3000 Series is a tough, scuff-resistant, flexible, white promotional calendered vinyl film. MPI 3000 offers an economical choice for applications requiring an economy calendered film with permanent or removable adhesive performance. For equipment / material compatibility, durability, processing tips, warranted inks or recommended clear coats and overlaminates reference Instructional Bulletins #5.30, #5.80 and #5.91.

### Construction:

MPI 3000 / S-3300 / 90#

|                       |  |
|-----------------------|--|
| <b>Face Film:</b>     | 3.4 mil (86 m) flexible, matte calendered vinyl film |
| <b>Adhesive:</b>      | S-3300, permanent, clear, acrylic pressure-sensitive |
| <b>Release Liner:</b> | 90# StaFlat  |

MPI 3001 / R-175 / 90#

|                       |  |
|-----------------------|--|
| <b>Face Film:</b>     | 3.4 mil (86 m) flexible, matte calendered vinyl film |
| <b>Adhesive:</b>      | R-175, removable, clear, acrylic pressure-sensitive  |
| <b>Release Liner:</b> | 90# StaFlat  |

MPI 3002 / S-652 / 90#

|                       |  |
|-----------------------|--|
| <b>Face Film:</b>     | 3.4 mil (86 m) flexible, matte calendered vinyl film |
| <b>Adhesive:</b>      | S-652, permanent, clear, acrylic pressure-sensitive  |
| <b>Release Liner:</b> | 90# StaFlat  |

MPI 3003 / S-658 / 90#

|                       |  |
|-----------------------|--|
| <b>Face Film:</b>     | 3.4 mil (86 m) flexible, matte calendered vinyl film |
| <b>Adhesive:</b>      | S-658, permanent, gray, acrylic pressure-sensitive   |
| <b>Release Liner:</b> | 90# StaFlat  |

### Physical Properties:

The following information on physical and chemical characteristics is based upon tests believed to be reliable. The values are intended only as a source of information. They are given without guaranty and do not constitute a warranty. The purchaser should independently determine, prior to use, the suitability of this material for his/her specific purpose (Data represents averages and is not intended for use as a specification).

|   |  |
|---|--|
| <b>Recommended Print Method:</b>                            | Solvent Inkjet. Reference IB #5.80 for printer/media compatibility.                        |
| <b>Outdoor Durability:</b>                                  | Up to 1 year when properly processed and applied (vertical exposure, unprinted film).      |
| <b>Removability (R-175):</b>                                | 1 year removability from most smooth sound OEM surfaces with little or no adhesive residue |
| <b>Minimum Surface/Ambient Air Application Temperature:</b> | R-175 - 40° F (4° C)<br>S-3300 - 50° F (10° C)<br>S-652/ S-658 - 40° F (4° C)              |



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| <b>Application Surface:</b>                | Flat or simple curves  |
| <b>Service Temperature Range:</b>          | -40° F to 176° F (-40° C to 80° C) (Reasonable range of temperatures which would be expected under normal environmental time and temperature conditions)   |
| <b>Typical Film Caliper (w/adhesives):</b> | 4.4 mils (112 µm)  |
| <b>Chemical Resistance:</b>                | Resistant to most mild acids, alkalies and salt solutions  |
| <b>Shelf Life:</b>                         | One year when stored at the following temperatures and humidity conditions 68°-77° F (20° - 25° C) and 50±5% R. H.   |
| <b>Dimensional Stability</b>               | Good. Determined by measuring shrinkage of film applied to 35 in. <sup>2</sup> (232 cm <sup>2</sup> ) aluminum test panel after 72 hrs. aging at 73° F (23° C) and 50±5% R. H. followed by 48 hrs. at 150° F (65° C) |

## Typical Converting Methods:

|                               |  |
|-------------------------------|--|
| <b>Thermal Die-Cutting:</b>   | Yes, 290° F - 300° F (143° C to 149° C) for 0.5 - 1.0 second. Cutting temperatures and dwell times will vary with differences in die configuration and individual machines. Always test prior to production. |
| <b>Steel Rule Die-Cutting</b> | Yes  |

*Revisions have been italicized.*

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