Aerospace and Automotive
Topcoated Polypropylene with Flame-Retardant Adhesive

Aerospace applications include:
- floor coverings
- textiles (draperies & upholstery)
- seat cushions
- padding
- trays
- electrical conduits
- air ducting
- cargo covers

Automotive applications include:
- seat cushions
- seat belts
- headlining
- convertible tops
- armrests
- trim panels
- compartment shelves
- head restraints
- floor coverings
- sun visors
- shades

For more information on FLEXcon’s pressure-sensitive film solutions for aerospace and automotive, contact your local Sales Representative or our Performance Products Business Team at (508) 885-8440.

Product ID #: FLX068603

Product: FLEXcon® FLEXmark® PP 230 H White
TC-458 V-59FR Spec 50K-9

Benefits:
- Topcoated 2.3 mil white polypropylene offers excellent resistance to shrinkage
- Excellent surface smoothness for optimum ink laydown
- Printable via flexographic, rotary screen, rotary letterpress and hot stamping
- V-59FR, white flame-retardant non-halogenated adhesive
- Adhesive adheres well to polyester, polypropylene, ABS, stainless steel, polyethylene, polycarbonate, and aluminum
- 50 lb. bleached kraft release liner offers good diecutability
- Liner ideal for roll converting and manual dispensing
- Passes FAR 25.853(a) Appendix F, Part I, (a), (i); 12 second burn¹ standard for Aerospace
- Passes FMVSS 302² standard for Automotive

¹V-59FR at a 2 mil thickness passed FAR 25.853(a) Appendix F, Part I, (a), (ii); 12 second burn protocol when tested applied to a 2 mil polyester, 2 mil polyimide, 2.3 mil polypropylene, and 2 mil aluminum foil face stock, as well as in a number of product constructions. Please inquire with your FLEXcon sales representative or the FLEXcon Business and Technology Discovery Group for the most up-to-date list of products tested and their results.

²V-59FR at a 2 mil thickness passed FMVSS 302 when tested applied to a 2 mil polyester, 2 mil polyimide, 2.3 mil polypropylene, and 2 mil aluminum foil face stock, as well as in a number of product constructions. Please inquire with your FLEXcon sales representative or the FLEXcon Business and Technology Discovery Group for the most up-to-date list of products tested and their results.
### Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness (Mils [microns])</td>
<td>Film: 2.3 (58) +/- 10%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Adhesive: 1.9-2.1 (48-53) +/- 0.1 (3)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Liner: 3.1 (79) +/- 10%</td>
<td></td>
</tr>
<tr>
<td>Dimensional Stability (%)</td>
<td>No Shrinkage</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Observed</td>
<td></td>
</tr>
</tbody>
</table>

**Adhesion Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultimate Peel from</td>
<td>Average</td>
<td>ASTM D 903 (Modified for 72 hour dwell time)</td>
</tr>
<tr>
<td></td>
<td>Oz/ln</td>
<td>(N/m)</td>
</tr>
<tr>
<td>ABS</td>
<td>58</td>
<td>(638)</td>
</tr>
<tr>
<td>Acrylic</td>
<td>65</td>
<td>(715)</td>
</tr>
<tr>
<td>Aluminum</td>
<td>69</td>
<td>(759)</td>
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<tr>
<td>Glass</td>
<td>48</td>
<td>(528)</td>
</tr>
<tr>
<td>Polycarbonate</td>
<td>62</td>
<td>(682)</td>
</tr>
<tr>
<td>Polyester</td>
<td>58</td>
<td>(638)</td>
</tr>
<tr>
<td>Polystyrene</td>
<td>16</td>
<td>(176)</td>
</tr>
<tr>
<td>Polypropylene</td>
<td>4</td>
<td>(44)</td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>61</td>
<td>(671)</td>
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</table>

**Expected Shear**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room Temp (hours)</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Tack (gm/sq cm)</td>
<td>980</td>
<td>ASTM D 2979</td>
</tr>
</tbody>
</table>

**Flammability**

Meets FAR 25.853¹ and FMVSS 302²

**Expected Exterior Life**

Two years

**Service Temperature Range**

40°F to 302°F (-40°C to 150°C)

**Minimum Application Temperature**

50°F (10°C)

**Storage Stability**

Two years when stored at 70°F (21°C) and 50% relative humidity

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**Product Performance and Suitability**

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