Aerospace and Automotive
Foil 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

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 #: FLX068348

Product: FLEXcon® FLEXmark® Foil 200 Silver V-59FR Spec 50K-9

Benefits:
- 2.0 mil aluminum foil for supreme heat resistance
- 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), 1, (ii): 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), 1, (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.
### Product Data

#### Physical Properties
- **Thickness (Mils[microns])**
  - **Film**: 2.0 (51) +/- 10%
  - **Adhesive**: 1.9-2.1 (48-53) +/- 0.1 (3)
  - **Liner**: 3.1 (79) +/- 10%

- **Dimensional Stability (%)**
  - No Shrinkage Observed
  - Applied Shrinkage: 24 hour dwell time on aluminum panel then 24 hours at 160°F (71°C)

#### Adhesion Properties
- **Ultimate Peel from Average**
  - **Oz/In (N/m)**: ABS 80 (880), Acrylic 63 (693), Aluminum 108 (1188), Glass 53 (583), Polycarbonate 66 (726), Polyester 76 (836), Polyethylene 20 (220), Polypropylene 9 (99), Stainless Steel 41 (451)

- **Expected Shear**
  - **ASTM D 3654 Method A**
    - a. 1 hr. dwell
    - b. 1 sq. in. surface
    - c. 4 lb. load

- **Room Temp (hours)**: 100
- **Tack (gm/sq cm)**: 980
- **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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