

# Aerospace and Automotive

Polyimide 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 #: FLX068347*



Product:

**Flexcon®  
FlexMark® L-59FR 068347  
(2.0 Mil Polyimide,  
2.0 Mil Adhesive)**

Benefits:

- 2.0 mil polyimide film
- 2.0 mil white flame-retardant non-halogenated adhesive
- Adhesive adheres well to acrylic, polypropylene, stainless steel, polyethylene, and glass
- 50 lb. bleached kraft release liner offers good diecutability
- FlexMark® L-59FR products at a 2.0 mil to 4.0 mil adhesive thickness are rated UL 94 V-0 when coated on 2.0 mil polyimide and 2.0 mil aluminum foil (UL E518655)
- FlexMark® L-59FR products at a 2.0 mil adhesive thickness on a 2.0 mil polyimide and 2.0 mil aluminum foil pass the following test standards: FMVSS 302; Vertical 60 sec burn: FAR 25.853 (a) Appendix F, Part I, (a), 1, (i); Vertical 12 sec burn: FAR 25.853 (a) Appendix F, Part I, (a), 1, (ii); Heat Release: FAR 25.853 (d) Appendix F, Part IV; Smoke Density: FAR 25.853 (d) Appendix F, Part V; Toxicity Test: BSS 7239



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| PRODUCT DATA                    | VALUE  | TEST METHOD   |
|---------------------------------|--|---|
| <b>Physical Properties</b>      |  |   |
| 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) |
| <b>Adhesion Properties</b>      |  |   |
| Ultimate Peel from              | Average  | ASTM D 903 (Modified for 72 hour dwell time)  |
|                                 | Oz/In (N/m)  |   |
| Acrylic                         | 75 (825)   |   |
| Glass                           | 60 (660)   |   |
| Polyethylene                    | 19 (209)   |   |
| Polypropylene                   | 2 (22)   |   |
| Stainless Steel                 | 54 (594)   |   |
| Expected Shear                  |  | ASTM D 3654 Method A<br>a. 1 hr. dwell<br>b. 1 sq. in. surface<br>c. 4 lb. load       |
| Room Temp (hours)               | 100  |   |
| Tack (gm/sq cm)                 | 980  | ASTM D 2979   |
| Flammability                    | See other side for information                                 |   |
| 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 |   |

For guidance only - the data are based on three or less production runs.

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**Product Performance and Suitability**

All of the descriptive information, the typical performance data, and recommendations for the use of FLEXcon products shall be used only as a guide and do not reflect the specification or specification range for any particular property of the product. Furnishing such information is merely an attempt to assist you after you have indicated your contemplated use and shall in no event constitute a warranty of any kind by FLEXcon. All purchasers of FLEXcon products shall be responsible for independently determining the suitability of the material for the purpose for which it is purchased. No distributor, salesman, or representative of FLEXcon is authorized to give any warranty, guaranty, or make any representation in addition or contrary to the above.

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