



Flexcon® ThermoFilm® HT™ PI1W50GV2

1.0 mil high temperature white polyimide film

FLX070416 | Part #: PI2-BW23-J48AH/36

Benefits

- UL 969 recognized, REACH & RoHS compliant, and halogen-free
- Chemical, solvent, and abrasion resistance (OHR1 Compliant) for harsh industrial conditions

Features

- 1 mil (25 micron) high temperature white polyimide film, topcoated for extensive printability
- Withstands intermittent heat up to 750°F (399°C) for high-heat applications
- 600 DPI resolution for sharp barcodes, data matrix codes, and alphanumeric tracking
- ANSI scannability compliance ensures reliable long-term traceability
- Topcoat has static dissipating properties
- Low-outgassing adhesive for sensitive applications

Additional Details

[Click here](#) for additional information including technical information.

Technical Data

Physical Properties

| Thickness (Mils [microns]) | Mils | Microns |
|----------------------------|-------------------|-------------|
| Total Product | 6.1 | |
| Film | 1 +/- 15% | 25 +/- 15% |
| Adhesive | 1.4 - 1.5 +/- 0.1 | 36-38 +/- 3 |
| Liner | 2.7 +/- 10% | 69 +/- 10% |
| Topcoat | 0.7 +/- 15% | 18 +/- 15% |

Test Method: ASTM D 3652 (Modified for use with non-tape product)

Adhesion Properties

| Ultimate Peel from | Average Oz/In | (N/m) |
|--------------------|---------------|-------|
| Stainless steel | 42 | 462 |
| Acrylic | 40 | 440 |
| Glass | 46 | 506 |
| FR4 Board | 50 | 550 |

Test Method: ASTM D 903 (Modified for 72 hr dwell time)

| Additional Properties | Value | Test Method |
|---------------------------------|--|--|
| Expected Shear (hours) | 75 | ASTM D 3654 Method A (1 hr dwell, 1 sq. in, 4 lb load) |
| Tack (g) | 1240 | ASTM D 2979 |
| Expected Exterior Life | Two years | |
| Additional Information | | |
| Service Temperature | -40°F to 356°F (-40°C to 180°C) | |
| Minimum Application Temperature | 50°F (10°C) | |
| Storage Stability | Two years stored at 70°F (21°C) and 50% RH | |

Product Performance and Suitability

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