



# Flexcon® SwitchMark® 2102 10 MIL POLY WITH ADHESIVE BOTH SIDES ON 90PFW ONE SIDE/80BPFM PRINTED ONE SIDE

Membrane Switch - Component Spacer -2-10-2 (.014" Total Thickness)

FLX000481

## Benefits

- RoHS 2002/95/EC Compliant
- RoHS 2003/11/EC Compliant, RoHS 76/69/EEC Compliant, UL Recognized"
- Superior mechanical properties ensure long-term membrane switch performance without delamination (ASTM F 1578-00)
- Adhesive system has UL recognition under UL746C, Polymeric Adhesive Systems, Electrical Equipment - Component and UL969, Marking & Labeling Systems Materials Component 302°F (150°C)

## Features

- 1.0 mil clear polyester film
- Adhesive is compatible with a wide range of solvent and UV ink systems, including conductive, decorative and dielectric inks
- High-performance permanent pressure-sensitive acrylic adhesive bonds well to high-surface energy plastics, metal and paint\*
- Product can be repositioned within the first few minutes of application allowing easy correction of assembly mistakes
- Backed with an 80 lb. two-sided semi-bleached polycoated mando release liner, backside printed with a black stripe
- Backed with a layflat 90 lb. polycoated white release liner on the other side
- SwitchMark® branded, color-coded release liner ensures easy product identification and mistake proofing during production and switch assembly
- Product is available in rolls and sheets

## Additional Details

\*Recommendations: Application surfaces must be above 50°F (10°C). Surfaces must be clean and dry to obtain best adhesion results. Firm and even laminating pressure helps promote better adhesive contact and improves bond strength. Always laminate to exclude air entrapment. When diecutting, the 80 lb. printed mando liner should be used as the diecutting base.

## Technical Data

### Physical Properties

Thickness (Mils [microns])	Mils	Microns
Total Product	25.6	
Film	10.0 +/- 10%	254
Adhesive	1.9-2.1 +/- 0.1 (3)	48-53
Adhesive 2	1.9-2.1 +/- 0.1 (3)	48-53
Liner	6.9 +/- 10%	175
Liner 2	4.8 +/- 10%	122

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

**Adhesion Properties**

Ultimate Peel from	Average Oz/In	(N/m)
ABS	16	176
Alkyd Enamel Paint	35	385
Conductive Solvent Screen Ink	20	220
Decorative UV Screen Ink - Coa	71	781
Decorative UV Screen Ink - Naz	78	758

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

Additional Properties	Value	Test Method
Expected Shear (hours)		
Tack (g)	170	ASTM D 2979
Expected Exterior Life	Two years	
Additional Information	Dielectric Strength (minus adhesive) 11.0 KV/mil (DC)	
Service Temperature	-40°F to 302°F (-40°C to 150°C) with polyester film	
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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