

# Membrane Switch - Overlaminates

0-2-2 (.004" Total Thickness)

*Flexcon® SwitchMark® spacer components, overlaminates and laminating adhesives are specifically engineered for demanding membrane switch applications. Specially formulated pressure-sensitive adhesives are designed to bond well to a variety of surfaces. The adhesive also allows the necessary rework time to minimize waste in assembly from misaligned components.*

*Markets Include:  
Membrane Switch  
Aerospace  
Appliance  
Automotive  
Durable Goods  
Consumer Electronics  
Heavy Equipment  
Industrial Equipment  
Medical Device*

*For more information on FLEXcon's pressure-sensitive film solutions for Membrane Switches, contact your local Sales Representative or our Performance Products Business Team at (508) 885-8440.*

*Product ID #: FLX000478*



Product:

**Flexcon®  
SwitchMark® 0-2-2**

Benefits:

- Excellent high-temperature, humidity and chemical resistance which allows the switch to remain functional in extreme environments
- Film is dimensionally stable during the conventional printing process
- 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\*
- Superior mechanical properties ensure long-term membrane switch performance without delamination (ASTM F 1578-00)
- Product can be repositioned within the first few minutes of application allowing easy correction of assembly mistakes
- Backed with a 90 lb. moisture stable polycoated layflat release liner ideal for sheet-form converting
- Product is ideal for dome retention, tail insulating, tail reinforcing and printing conductive circuit layers
- Product is available in rolls and sheets
- Product is RoHS compliant
- Adhesive system has UL recognition under UL746C, Polymeric Adhesive Systems, Electrical Equipment - Component and UL969, Marking & Labeling Systems Materials Component 302°F (150°C)

\*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 adhesive contact and improves bond strength. Always laminate to exclude air entrapment.

For SwitchMark® inquiries in the United States and Canada, please contact Insulectro Distribution at (603) 629-4412. For other inquiries, please contact your Flexcon Sales Representative or call Flexcon at (508) 885-8296.

# Flexcon® SwitchMark® 0-2-2

PRODUCT DATA	VALUE	TEST METHOD
<b>Physical Properties</b>		
Thickness (Mils[microns])	Film	2.0 (51) +/- 10%
	Adhesive	1.9-2.1 (48-53) +/- 0.2 (5)
	Liner	6.9 (175) +/- 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)	
Conductive Solvent Screen Ink - Acheson Colloids 479SS	56	(616)
Dielectric UV Screen Ink - Acheson Colloids 452SS	64	(704)
Polycarbonate	73	(803)
Polyester	82	(902)
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)	260	ASTM D 2979
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	

### 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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