



# PRODUCT INFORMATION

## THERMLfilm SELECT® 21940

### Product Description:

THERMLfilm SELECT 21940 is a UL-recognized/CSA-accepted, 2.0 mil gloss topcoated thermal transfer printable, white polyester coated with an aggressive, permanent acrylic adhesive, and backed with a roll form release liner.

- THERMLfilm PM 200 W ..... 2.0 mil gloss white polyester designed for high-performance label applications.
- TC-390 ..... Topcoat resists smudging and abrasion when printed with resin and wax/resin thermal transfer ribbons. Topcoat offers static dissipating properties, and facilitates fan folding.
- L-344 ..... Aggressive, high-performance permanent acrylic adhesive.
- S50K-8 ..... 50 lb. bleached Kraft release liner.

### High-Performance Applications:

- Automotive: Parts identification, authentication and tracking
- Industrial: Materials tracking, inventory control, product identification, asset tracking, agency recognition
- Electronics: Component identification, authentication and tracking, agency recognition
- Healthcare: Lab specimen tracking, microscope slide tracking, diagnostics

### Features & Benefits:

- Static dissipating properties reduce print voids due to static generated at the print head
- Ideal for fan-foldable applications
- Gloss white surface makes label graphics easy to read
- Compatible with color and black resin and wax/resin thermal transfer ribbons
- Printable with a wide range of conventional solvent and water-based inks
- Adhesive offers high initial tack, high shear, and high ultimate bond to a wide variety of surfaces
- Superior print quality to print-treated polyesters
- Liner is suitable for label sensing equipment with most thermal transfer printers
- UL-recognized as part of a thermal transfer printing system which includes a ribbon and THERMLfilm SELECT 21940. FLEXcon's thermal transfer printable films are recognized with UL Laboratories under 969 standard for Marking and Labeling Systems, file number MH 16635(N) and are listed in the recognized component directory under Section PGJ12, Component-Printing Materials
- This product, with specific thermal transfer ribbon(s) and printer(s), is a CSA-accepted Electronic Printing Technology under CSA standard C22.2 No. 0.15-95
- Available in Quick-Ship for fast delivery

### Recommendations:

Evaluate the intended ribbon and ink system for compatibility with product under application conditions.

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PRODUCT DATA	VALUE	TEST METHOD
<b>Physical Properties:</b>		
Thickness (Mils[microns])	Film: 2.0 (51) +/- 10% Adhesive: 0.8-0.9 (20-23) +/- 0.1 (3) Liner: 3.1 (79) +/- 10%	ASTM D 3652
Dimensional Stability (%)	Excellent: No measurable shrinkage observed on applied parts.	Applied Shrinkage: 24 hour dwell time on aluminum panel then 24 hours at 160°F (71°C)
Chemical Resistance (non-printed stock)		ASTM D 896 (Modified for number of cycles and cycle time)
Household Cleaners:	No effect on topcoat or adhesive	
Mild Acid:	No effect on topcoat or adhesive	
Oil:	No effect on topcoat or adhesive	
Water:	No effect on topcoat or adhesive	
<b>Adhesion Properties:</b>		
Ultimate Peel from various surfaces	<u>Average</u> Oz/in (N/m)	ASTM D 903 (Modified for 72 hour dwell time)
Stainless Steel	55 (605)	
Acrylic	61 (671)	
Glass	56 (616)	
Polypropylene	35 (385)	
Expected Shear (hours)	100+	ASTM D 3654 Method A a. 1 hr. dwell b. 1 sq. in. surface c. 4 lb. load
Tack (gm)	460	ASTM D 2979
<b>Expected Exterior Life:</b>	Two years	
<b>Service Temperature Range:</b>	-40°F to 302°F (-40°C to 150°C)	
<b>Minimum Application Temperature:</b>	50°F (10°C)	
<b>Storage Stability:</b>	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.