

# Providing Solutions in Pressure Sensitive Films

# **Product Construction Sheet**

THERMI.film® SELECT™ 21944E

### GENERAL DESCRIPTION:

This is a topcoated thermal transfer printable white polyester film coated with a permanent pressure sensitive acrylic adhesive and backed with a white glassine release liner.

### UL/CSA RECOGNITION:

This is an UL recognized and CSA listed product. For further information, please reference FLEXcon's UL file No. MH16635 (N), CSA file No. 099214 L 000 or contact your FLEXcon Representative.

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PRODUCT DATA VALUE TEST METHOD

PHYSICAL PROPERTIES

Thickness Film: 50 +/- 10 % ASTM D 3652

(micron) Adhesive: 20-23 +/- 3
Liner: 56 +/- 10

Dimensional Stability (%) No shrinkage observed On Al panel at

70`C for 24 hr.

## ADHESION PROPERTIES\*\*

Adhesion from (N/m)	Average		
Stainless Steel Acrylic Glass Polypropylene	737 781 759 528		FTM 1 (Modified for 72 hr dwell time)
Expected Shear (hours)	100 +		FTM 8
Tack (gm/sq cm)	540	400 - 700	ASTM D 2979

<sup>\*\*</sup> For guidance only

This data is based on limited test results due to the custom nature of this product, not to be used for setting specifications.

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# CHEMICAL RESISTANCE

Test Method: ASTM D 896 (All testing at RT., five cycles, ten minutes in solvent, thirty minutes recovery on SS panel (24 hour recovery after last cycle) vs. 72 hour on SS panel at RT. (24 hr dwell time on SS panel before immersion)

Windex No visual change, 10% adhesion loss
Isopropyl Alcohol No visual change, 10% adhesion loss
Gasoline Edge penetration, 20% adhesion loss

## **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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CHEMICAL RESISTANCE (continued)

Toluene Edge penetration, 20% adhesion loss

Oil (SAE 10W-30) No visual change, 10% adhesion loss

Acetic Acid (5%) No visual change, 10% adhesion loss

Water No visual change, 10% adhesion loss

3 day water immersion + 24 hr recovery vs. 72 hr at RT. on SS panel

(24 hr dwell time on SS panel before immersion)

No visual change, 20% adhesion loss

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### HUMIDITY RESISTANCE

Test Method: On SS panel at 38°C and 95% RH vs. 72 hr on SS panel at RT. (24 hr dwell time on SS panel before humidity exposure)

1 day +

15 min recovery No visual change, 35% adhesion loss

24 hr recovery No visual change, or adhesion loss

7 day +

15 min recovery No visual change, 40% adhesion loss

24 hr recovery No visual change or adhesion loss

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EXPECTED EXTERIOR LIFE Two years

SERVICE TEMPERATURE RANGE -40°C to 150°C

MINIMUM APPLICATION TEMPERATURE 10°C

STORAGE STABILITY Two years stored at 21 C and 50% RH

\* THERMLfilm is a registered trademark and SELECT is a trademark of FLEXcon Company, Inc. 21/08/2003

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