



PRODUCT INFORMATION

THERMLfilm SELECT® 21230

Product Description:

THERMLfilm SELECT 21230 is a 2.0 mil matte topcoated UL-recognized/CSA-accepted thermal transfer printable white polyester, coated with a general-purpose, permanent pressure-sensitive acrylic adhesive, and backed with a roll-form release liner.

- PM 200 White 2.0 mil white polyester designed for high-performance label applications.
- MTC-329 Matte topcoat resists smudging and abrasion when printed with wax/resin and wax thermal transfer ribbons.
- L-23 General-purpose, permanent pressure-sensitive acrylic adhesive provides a permanent bond to a wide range of surfaces.
- S50K-8 50 lb. semi-bleached kraft release liner.

Product Variations: None

Applications:

Industrial: UL/CSA rating plates and nameplates, materials tracking
Automotive: Under the hood/parts identification

Features & Benefits:

- Compatible with color and black wax/resin and wax thermal transfer ribbons
- Compatible with impact and dot matrix ribbons, and laser printing systems
- Printable with a wide range of conventional solvent and water-based inks
- Acrylic adhesive bonds well to a wide variety of application surfaces
- 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 21230. FLEXcon's thermal transfer printable films are recognized with UL Laboratories under 969 standard for Marking and Labeling Systems, file number MH16635 (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 recognized 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 this product under application conditions.

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PRODUCT DATA	VALUE	TEST METHOD
Physical Properties:		
Thickness (Mils[microns])	MTC and Film: 2.4 (61) +/- 10% Adhesive: 0.8-0.9 (20-23) +/- 0.1 (3) Liner: 3.1 (79) +/- 10%	ASTM D 3652
Dimensional Stability (%)	No shrinkage observed	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	
*Overlaminates are available to protect label graphics that are exposed to extremely harsh environments.		
Adhesion Properties:		
Ultimate Peel from various surfaces	<u>Average</u> Oz/in (N/m)	ASTM D 903 (Modified for 72 hour dwell time)
Stainless Steel	60 (660)	
Acrylic	71 (781)	
Glass	54 (594)	
Expected Shear (hours)	75	ASTM D 3654 Method A a. 1 hr. dwell b. 1 sq. in. surface c. 4 lb. load
Tack (gm/sq cm)	550	ASTM D 2979
Expected Exterior Life:	Film: Two years Matte Topcoat: Turns yellow under sunlight	
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.