



PRODUCT INFORMATION

THERMLfilm SELECT® 31800

Product Description:

THERMLfilm SELECT 31800 is a 2.6 mil gloss topcoated UL-recognized (indoor) thermal transfer printable hard white polypropylene, coated with a general-purpose, permanent pressure-sensitive acrylic adhesive, and backed with a roll-form release liner.

- PP 260 H White..... 2.6 mil hard white polypropylene designed for economical, general purpose label applications.
- TC-387 Topcoat resists smudging and abrasion when printed with resin and wax/resin thermal transfer ribbons.
- L-20 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

Economical, General Purpose Applications:

Industrial: Materials tracking, inventory control, product identification, asset tracking, shipping, agency recognition
Healthcare: Patient care tracking, radiology, medication dispensing
Retail: Horticulture/nursery labels, jewelry labels

Features & Benefits:

- Economical polypropylene label stock with proven performance
- 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
- 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 (indoor) as part of a thermal transfer printing system which includes a ribbon and THERMLfilm SELECT 31800. 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
- Available in Quick-Ship for fast delivery

Recommendations:

Evaluate the intended ribbon and ink system for compatibility with this product under application conditions. This product is not intended for fan-foldable applications

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| PRODUCT DATA | VALUE | TEST METHOD |
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| Physical Properties: | | |
| Thickness (Mils[microns]) | Film: 2.6 (66) +/- 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 |
| Household Cleaners: | No effect on topcoat or adhesive | (Modified for 72 hour dwell time) |
| Mild Acid: | No effect on topcoat or adhesive | |
| Oil: | No effect on topcoat or adhesive | |
| Water: | No effect on topcoat or adhesive | |
| 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 | 38 (418) | |
| Acrylic | 41 (451) | |
| Glass | 43 (473) | |
| Expected Shear (hours) | 15 | ASTM D 3654 Method A a. 1 hr. dwell b. 1 sq. in. surface c. 4 lb. load |
| Tack (gm/sq cm) | 500 | ASTM D 2979 |
| Expected Exterior Life: | Indoor use only | |
| Service Temperature Range: | -40°F to 176°F (-40°C to 80°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.