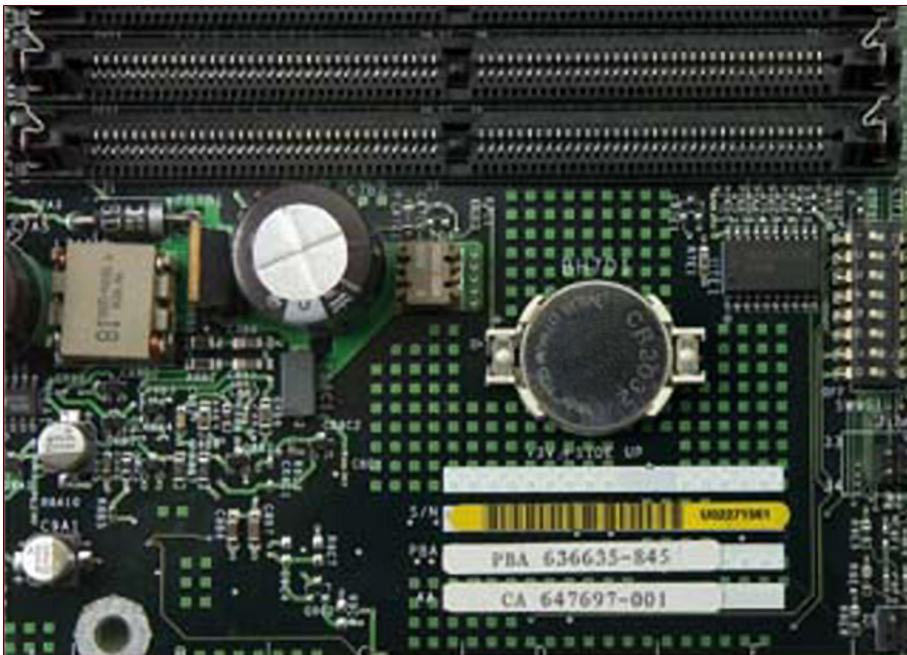


Appliance - Printed Circuit Board Label

1.0 mil White Kapton

Printed circuit board (PCB) labels contain important product identification and usage information while providing high-contrast alphanumeric imaging and brand identification graphics. Pressure-sensitive films are ideal because they are printable for a variety of print technologies and provide excellent opacity for excellent graphic reproduction. The strength and rigidity of film makes it ideal for withstanding the PCB manufacturing process, fluctuating temperatures, product use, abrasion, and cleaning chemicals. Pressure-sensitive adhesives are designed to bond well to high-surface energy plastics, to hold the label in place throughout the life of the product. Look to pressure-sensitive films and adhesives to meet the challenging requirements of PCB labeling. **For more information on FLEXcon's pressure-sensitive film solutions for appliance printed circuit board labeling contact your local Sales Representative or our Product Identification Business Team at (508) 885-8300.**



Product: THERMLfilm® K 100 WHITE TC-492 V-402 SPEC 50K-7

Benefits:

- 1.0 mil white coated, high-temperature polyimide (Kapton®) film withstands intermittent heat exposure up to 700°F (371°C)
- Film endures wave solder and standard acidic solvent
- Thinner caliper increases the number of labels per roll and reduces costs
- Gloss topcoat provides a superior print receptive surface for thermal transfer imaging using high-performance resin and wax/resin ribbons, and offers increased resistance to solvents
- Topcoat and film provide a high Print Contrast Signal (PCS) for scanning high deposition and condensed bar codes
- Topcoat is printable with conventional inks
- Topcoat's static dissipating properties reduces print voids due to static generated at the print head
- Permanent pressure-sensitive acrylic bonds well to high-surface energy plastics
- Backed with a 50 lb. bleached kraft release liner ideal for roll-form converting
- Liner is suitable for optical sensing on most thermal transfer printers
- Liner's silicone release system reduces label pick-off

Recommendation: Printing and testing under actual application conditions is recommended.

*Kapton is a registered trademark of E.I. DuPont Company



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1 FLEXcon Industrial Park, Spencer, MA 01562-2642, Telephone (508) 885-8300 FAX (508) 885-8301 www.FLEXcon.com



THERMLfilm® K 100 WHITE TC-492 V-402 SPEC 50K-7

| PRODUCT DATA | VALUE | TEST METHOD |
|--|---|---|
| Physical Properties | | ASTM D 3652 |
| Thickness (Mils[microns]) | Film | 1.5 (38) +/- 10% |
| | Adhesive | 1.4-1.5 (36-38) +/- 0.1 (3) |
| | Liner | 3.1 (79) +/- 10% |
| Dimensional Stability (%) | No Shrinkage Observed | Applied Shrinkage: 24 hour dwell time on aluminum panel then 24 hours at 160°F (71°C) |
| Print Contrast Signal | 90% minimum; 95% average | ANSI 3.182 |
| Optical Density | .7 +/- 0.5 | Optical Densitometer |
| Adhesion Properties | | |
| Ultimate Peel from | Average | ASTM D 903 (Modified for 72 hour dwell time) |
| | Oz/In (N/m) | |
| ABS | 34 (374) | |
| Acrylic | 33 (363) | |
| Acrylic Powder Paint | 850 (9350) | |
| Epoxy Powder Paint | 32 (352) | |
| Glass | 34 (374) | |
| Painted Metal | 23 (253) | |
| Polycarbonate | 43 (473) | |
| Polyester | 45 (495) | |
| Polyester Powder Paint | 20 (220) | |
| Polypropylene | 7 (77) | |
| Polyurethane Powder Paint | 33 (363) | |
| Stainless Steel | 33 (363) | |
| Styrene | 30 (330) | |
| 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) | 250 | ASTM D 2979 |
| Expected Exterior Life | Two years | |
| Service Temperature Range | -40°F to 356°F (-40°C to 180°C) Intermittent exposure to 700°F (371°C) | |
| Minimum Application Temperature | 50°F (10°C) | |
| Storage Stability | Two years when stored at 71°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.

Last Modified On: 04/27/2007



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