

PTI Portfolio of Materials

- ✓ Tamper Evident
- ✓ Destructible
- ✓ Security



Printing
Technologies,
Inc.

Innovative Media Solutions

TAMPER EVIDENT FILM: MATERIAL 199

A polyolefin-based, clay-coated film designed to be compatible with most common impact, and many non-impact, print methods. It is waterproof, tear resistant, and resists temperature fluctuations. It is grease resistant. It will die cut and fold easily and is compatible with hot foil stamping and embossing. This facestock has been specifically designed to easily delaminate, showing tamper evidence, when used with an aggressive adhesive.



A general-purpose hot melt adhesive with excellent quick-stick properties. This adhesive exhibit excellent adhesion to a broad range of packaging surfaces and has improved die cutting and stripping attributes compared to other hot melt rubber-based adhesives. Product handles without tearing until applied. After being applied it has immediate tack, no set up time. Product is strong and durable but destructible after being applied.

- » Recommended for auto apply applications
- » Shipping/containers Industry applications
- » Pharmaceutical industry
- » Theft deterrent applications



Product Benefits

- » Face sheet delaminates after tampering while adhesive remains in tack
- » Waterproof, grease resistant
- » Works in wide range of temperatures.
- » Minimal set-up time
- » Suitable for indirect food contact

DIRECT THERMAL TAMPER EVIDENT: MATERIAL 313



A medium sensitivity top-coated direct thermal paper with exceptional environmental resistance to plasticizers and for use in standard speed thermal printers. All temp permanent, rubber-based adhesive that performs well in normal to freezer temperature applications. Adhesive has excellent tack and ultimate adhesion to a variety of surfaces including polystyrene, polypropylene, polyethylene, paper and corrugate. Suitable for cold, damp labeling applications. Will destroy upon trying to remove even on wet surfaces.



- » Corrugated boxes
- » Plastic food containers
- » Plastic bottles
- » Pharmacy applications
- » Barcoding and pricing labels – does not need tamper slits
- » Logistics warehousing
- » Promotional labels



Product Benefits

- » Versatile to have one product for most all applications, meaning less inventory
- » Cold damp substrates
- » Waxy corrugated

THERMAL TRANSFER PAPER TAMPER EVIDENT: MATERIAL 392

A premium bright white, coated facestock designed for high-speed thermal transfer printing. This smooth, smudge resistant face offers great thermal transfer printing and excellent flexo printing. Intended for thermal transfer label applications. Ideal for cold damp substrates. Compatible with most thermal transfer ribbons designed for coated paper. All Temp permanent, rubber-based adhesive that performs well in normal to freezer temperature applications. Adhesive has excellent tack and ultimate adhesion to a variety of surfaces including polystyrene, polypropylene, polyethylene, paper and corrugate. Suitable for cold, damp labeling applications.

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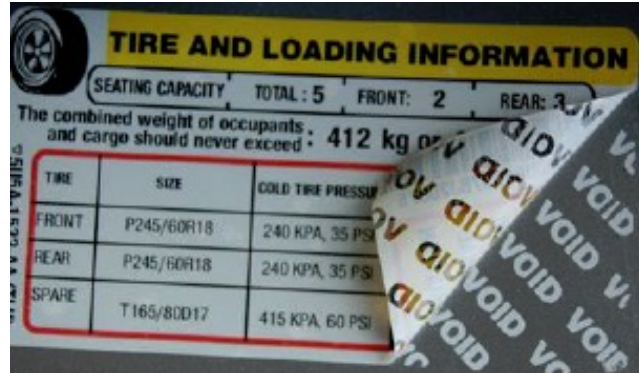
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WHITE POLY VOID: MATERIALS 369 WHITE - MATERIAL 442 SILVER

2 Mil Tamper Evident White & Silver Polyester Film. Topcoated optimizes ink receptivity with most solvent and UV inks systems. Acrylic adhesive that bonds well to a variety of surfaces including metal, low and high energy plastics, powder coated paint and polycarbonate. Adhesive leaves a void pattern behind when removed. Material does not show the void pattern from the front of the label and will need a black sensor bar for most thermal transfer printers.

- » Asset labels
- » Pharmacy labels
- » Suitable for autoclave and gamma sterilization methods
- » Security labels



Product Benefits

- » High temperature labeling up to 302 F (150 C)
- » Excellent for smear and scratch resistance
- » Opaque white with good hiding power and physical strength
- » Good adhesion to most substrate
- » The "VOID" left on the facestock and substrate when removed

THERMOCHROMIC INKS

Thermochromic inks are manufactured from a special pigment which changes from a colored state to colorless in response to a rise in temperature. As well as color shifters, changing from one color to another. Please share this with your sales team should you find value in this offering. These inks have serious applications such as in the food industry. They can be used to indicate when a packaged food has reached the correct temperature in an oven or that your bottle of wine is chilled to perfection.

Thermochromic inks are widely used in the following applications:

- » Securities printing
- » Promotional items
- » Anti-counterfeit
- » Smart packaging
- » Safety level monitoring
- » Medical – Rx paper – sterilization applications
- » Transportation tickets
- » Food temperature labels
- » Sterilization applications



THAW ALERT INKS



Inks that start clear then change colors after being frozen. Then once thawed ink will go back to clear. If product is refrozen, the ink will not change colors again.



Product Benefits

- » Improved food safety
- » Verify cold chain
- » Identify tampering
- » Stop counterfeiting