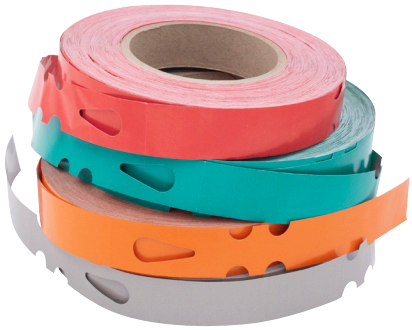
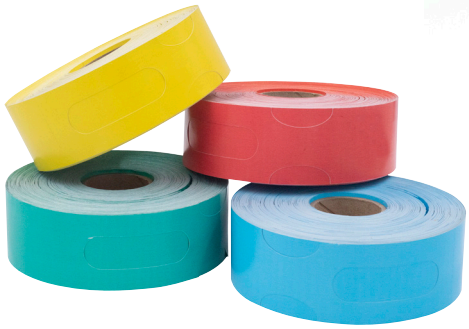
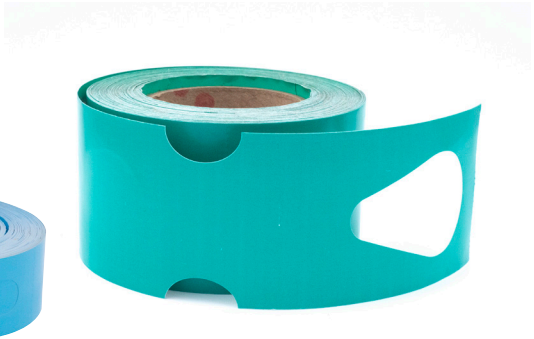
Product Description Key Hole Tags (KTAG)

Part Number: KTAG







Product Description: Detectapro metal detectable key hole tags (KTAGS) are designed to address foreign body contamination concerns associated with regular paper traceability tags used in food processing environments. KTAGS contain a 7 micron thick layer of aluminium foil designed to trigger metal detection systems, even when the tag is shredded into small pieces.

Detectapro testing concluded a 10x10mm piece of KTAG material was sufficient to trigger a metal detection alarm and rejection process (See Detectability Guide for full information). Detectapro KTAGS are heat resistant to at least 400°F of dry oven heat and are available in three standard sizes. Custom sizes and imprinting are available.

Product Materials: Paper, Laminate, Adhesive, aluminum foil, glassine liner

Product Color:
KTAG LARGE 3.125" x 12": Green, Yellow, Orange, Grey, Red and White
KTAG MEDIUM 1.75" x 11" Green, Yellow, Oragne, Blue and Red
KTAG SMALL 1" x 7.5": Green, Grey, Yellow, Orange, Blue, Red, Pink and White

Pack Size: 1 Roll = 1,000 KTAGS

Product Advantages:
- Detectable by in-line metal detection systems
- Bright Colors for easy visual identification
- Wide operating temperature range (-5°F to 400°F)
- FDA approved adhesive for food processing environments (incidental contact only)
- Can be used as part of HACCP and BRC procedures
- Displays due diligence in the prevention of foreign body contamination
- Custom applications available
- Hard wearing/excellent tear resistance

FDA Compliance:
- FDA 177.1520 for direct food contact

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EU Food Contact Approval
The detectable paper/film/paper compound used to manufacture BST Metal Detectable Loop Tags is in compliance with the rules of the Regulation (EC) No 1935/2004 of the European Parliament and Council of 27th October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC, Official Journal of the European Union L 338/4 of 13/11/2004, modified by app no 5.17 of the regulation (EC) No 596/2009 of 18th June 2009, Official Journal of the European Union L 188 of 18 July 2009, article 3.

The product is also in compliance with Commission Regulation (EU) No 10/2011 of 14th January 2011 on plastic materials and articles intended to come into contact with food, Official Journal of the European Union L 21/1 of 15th January 2011, last amendment by Commission Regulation (EU) No 2015/174 of 5th February 2015, Official Journal of the European Union L 30/2 of 6th February 2015.

Detectability
Detectapro KTAGS contain an aluminium layer to provide metal detectability. As such, your inspection systems should be capable of detecting aluminium contaminants. These KTAGS are not considered to be compatible when used in conjunction with aluminium trays / other aluminium food packaging. A 10 x 10mm piece the following test when tested through the geometric centre of an Anritsu KD8124AW coaxial metal detection system with a 95 x 450 mm aperture.

Reading Type	Test Piece Equivalent	Recommended Detector Sensitivity
FERROUS	1.5 mm	1.2 mm
NON FERROUS	3.5 mm	3.0 mm
STAINLESS STEEL	3.5 mm	3.0 mm

The above tests were repeated three times in order to gain accurate readings, please bear in mind however the above guidance does not take into account any product effect. The following factors can have considerable effects on detectability:

- Aperture dimensions
- Contaminant orientation
- Product Type (Wet / Dry / Frozen / Physical State)

The information provided in this product specification sheet is based on our experience and knowledge to date and we believe it to be true and reliable. This information is intended as a guide for your use of our products, the use of which is entirely at your own discretion and risk. We recommend all our products be thoroughly tested on your metal detection systems by a trained and certified professional. We, Detectapro Products, cannot guarantee favorable results and assume no liability in connection with the use of our products.

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TLP 8015 - Matte Polylith CSL

PRODUCT CONSTRUCTION

- Facestock: 3.2 mil matte polylith cut and stack label (CSL)

FEATURES

- Facestock is a matte finish print side material which has a printable backside gloss surface. Film consists of mineral enhanced, non-top coated polypropylene resin, providing an excellent print surface for flexographic printing.
- Stock is water and chemical resistant.

APPLICATIONS

- Meat and cheese cut & stack label inserts, bottle wrap labels, and bottleneck tags.

PHYSICAL PROPERTIES

(Typical values - not for specification use)

Performance Adhesion:

Tensile:	MD 12,800/ CD 21,000 lbs/in
Opacity:	91%
COF:	.34%
Gloss:	Matte side 15-35/satin gloss side 55-75 gloss units

ENVIRONMENTAL PERFORMANCE

Shelf Life:	1 year from date of manufacture when properly stored at 72° F and 50% relative humidity.
Agency Approval:	Available upon request. Please ask your TLP representative for more information.

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TLP 3997 - Bright Silver Laminated Foil

PRODUCT CONSTRUCTION

Facestock:	3.7 mil Bright Silver Aluminum Foil
Adhesive:	0.8 mil Rubber-Based Adhesive
Liner:	2.5 mil White Kraft Stock

FEATURES

- Facestock provides an uncoated paper printing surface with a thin metallic barrier for maximum resistance and durability.
- Facestock is a reverse coated aluminum foil laminated to a white kraft base paper and provides an uncoated paper printing surface with a thin metallic barrier for maximum resistance and durablity.
- Adhesive features high initial tack and ultimate bond strength to a wide variety of substrates, including low surface energy plastics, treated glass, and corrugated cardboard.

PHYSICAL PROPERTIES

(Typical values - not for specification use)

Facestock Tensile:	MD 27# per inch width
	CD 15# per inch width
Facestock Tear:	MD 45 grams per sheet
	CD 50 grams per sheet
Facestock Stiffness:	MD 250 mg
	CD 160 mg
Liner Tensile:	MD 38# per inch width
	CD 20# per inch width
Liner Tear:	MD 36 grams per sheet
	CD 41 grams per sheet

Typical Performance Data:

HDPE	
Loop Tack:	4.71 lbs.
Peel Adhesion:	3.72 lbs.
Polypropylene	
Loop Tack:	4.60 lbs.
Peel Adhesion:	2.62 lbs.
Glass – PE Treated	
Loop Tack:	2.34 lbs.
Peel Adhesion:	2.34 lbs.
Shrink Film	
Loop Tack:	2.88 lbs.
Peel Adhesion:	2.31 lbs.
Recycled Corrugated	
Loop Tack:	1.57 lbs.
Peel Adhesion:	1.81 lbs.

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ENVIRONMENTAL PERFORMANCE

Service Temperature Range:	- 65° F (-54° C) to 160° F (71° C)
Shelf Life:	Two years from receipt of material, if properly stored at 72° F (22° C) and 50% relative humidity. Converted labels should be stored in polyethylene bags.
Agency Approval:	Upon customer request, please consult with your TLP Representative.

SPECIAL CONSIDERATIONS

Minimum Application Temperature:	35° F (2° C)

For maximum bond strength, surface should be clean and dry. A typical cleaning solvent is heptane or isopropyl alcohol. Higher initial bonds are achieved through increased rub down pressure.

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