FCCID:UAUTSEC13560KHZ

F©



SECURITY EQUIPMENT. 4RN1

This device complex with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. And [2] This device must accept any interference received, including interference that may cause undesired operation. This class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme MNB-003 du Canada.

Integrated Control Technology Limited New Zealand

Purple NB Yellow NA Blue BEEPER Brown LED BLUE Orange LED GREEN White DATA 1 Green DATA 0 Black 0V Red +12V



Proximity Card Reader Model: PRX-TSEC-STD -DF-KP-B



EQUIPMENT. 4RN1 ACCESS CONTROL UNIT READER





Resin SP330

Excellent durability for heavy duty labeling applications.

Maximum abrasion resistance assures lasting variable barcodes and text. Full resin ribbon bonds to a variety of high-end synthetics, providing excellent scratch and smudge resistance. Image quality is unsurpassed, especially crisp for high-resolution output required for small text and 2D barcodes.

Benefits

- UL/CSA Recognized on Specific Substances
- Excellent Mechanical Durability
- Good Resistance to Typical Chemicals
- Very Dark Black Images with Exceptional Sharpness
- Prints on a Wide Range of Synthetic Receivers
- Anti-Static Formula and Backcoat Extend Printhead Life
- Clean Start[®] Built-In Printhead Cleaner

Recommended Stocks

- Top-Coated and Print-Treated Polyester
- Polyimide Films
- Polypropylene
- Polyethylene
- Vinyl
- Nylon



Clean Start[®]/

IIMAK Thermal Transfer Ribbons

| Wax/Resin | | Resin |
|-----------|------------|-------|
| PM 308 | Prime Mark | SP330 |

High durability to endure rough handling, abrasion, occasional chemical exposure, and outdoor elements Maximum durability to resist abrasion, heat, steam, and chemicals

Wax Ribbons for General Purpose Labeling GP725 | High Mark

Ribbons for Near Edge Printers and Flexible Packaging Coders NET FLEX | NET MARK IQ | NET RESIN IQ

Color Thermal Transfer Ribbons DC100 | DC200 | DC400 | NET Color

Security Enhanced Thermal Transfer Ribbons UV Invisible

310 Commerce Drive • Amherst, NY 14228 Toll-Free: 888.464.4625 • Phone: 716.691.6333 salesinfo@iimak.com • www.iimak.com

















Automotive

Electronics

Medical Devices Pharmaceutical

Life Sciences



SP330 Resin

Outstanding mechanical durability for the most demanding applications. Strongly resists abrasion and withstands many common chemicals. Razor sharp images transfer to many premium synthetic tags and labels.









Imaging Characteristics

| Printer | Print Speed | Energy Range |
|----------|-------------|--------------|
| Flathead | 6 IPS | Upper |

| Image Darkness | Scratch/Smudge | Chemical |
|----------------|----------------|------------|
| >2.2 RD | Highest | Moderate |
| (densitometer) | Resistance | Resistance |





Technical Specifications

| Color Code Tab | . Blue |
|------------------------|--------------------|
| Film Thickness | . 4.5 Microns |
| Total Ribbon Thickness | 6.2 Microns |
| Transmission Density | 1.00 MacBeth Scale |
| Ink Melting Point | 110°C/230°F |

UL and CSA Labeling Reference

Avery Fasson: UL MH17205, CSA 97198 FLEXcon: UL MH16635. CSA 99214

3M: UL MH16411

Sample SP330 Ribbons

Part # CES11019 - 110 mm x 50 m - CSI Part # CES11018 - 110 mm x 50 m - CSO

Typical Compliance

REACH – SVHC Free • RoHS/WEEE TSCA • CONEG • California Proposition 65 Additional Regulatory Requirements Upon Request

Industry Leading Customer Service

- Free Clean Start[®] built-in printhead cleaner
- Free samples
- Free technical support 888.372.0137
- Free 24-hour print tests
- Over 500 SKUs stocked for same-day shipping
- Complete line of over 2,000 SKUs

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3M Thermal Transfer Polyester Label Materials 7816 • 7816FL • 7875

| Technical Data | | | | July, 2010 | | |
|---------------------|---|---|---|---|--|--|
| | | | | | | |
| Product Description | 3M [™] Thermal durable polyeste stability. These which resists oc high surface ene | Transfer Polyester Label Ma er label stocks that offer exce label products utilize 3M [™] ozing and provides high stren ergy (HSE) plastics and meta | aterials 7816, 7816F ellent moisture resis Adhesive 310 which ngth on a variety of s als. | L and 7875 are tance and thermal n is a firm adhesive surfaces including | | |
| Construction | (Calipers are nomin | al values.) | | | | |
| | Product | Facestock | Adhesive | Liner | | |
| | 3M Label Material 7816 | 2.0 mils (51 microns) White Polyester Gloss TC | 0.8 mil (20 microns) 310 Acrylic | 3.2 mils (81 microns) 55# Densified kraft | | |
| | 3M Label Material 7816FL | 2.0 mils (51 microns) White Polyester Gloss TC | 0.8 mil (20 microns) 310 Acrylic | 1.5 mils (38 microns) Polyester | | |
| | 3M Label Material 7875 | 2.0 mils (51 microns) Matte Platinum Polyester TC | 0.8 mil (20 microns) 310 Acrylic | 3.2 mils (81 microns) 55# Densified kraft | | |
| Features | Topcoated for thermal transfer printing. Resin ribbons are recommended for optimum durability. The topcoat also provides improved ink anchorage for traditional forms of press printing. 3M label materials 7816 and 7875 55# densified kraft liner assures consistent die cutting. 3M label material 7816FL polyester liner contributes to improved die cutting by allowing for deeper die cuts than paper without the added concern of exposing paper fibers. A backside release coating helps minimize label blocking. The film liner resists breaking during high speed dispensing. The polyester liner is recommended for clean room applications. UL recognized (File MH16411) and CSA accepted (File 99316). See the UL and CSA listings for details. | | | | | |
| Application Ideas | Barcode label Property ident Woming institution | s and rating plates. tification and asset labeling. | r durable coode | | | |
| | warning, instruction, and service labels for durable goods.Nameplates and durable goods. | | | | | |

Typical Physical
PropertiesNote: The following technical information and data should be considered representative or
typical only and should not be used for specification purposes.

| Adhesive Coat Weight | 1.05 to 1.21 g/100 in. ² TM-2279 | | | | |
|------------------------------------|--|--------------------------|--|--|--|
| Release Range | 5 to 50 g/2 in. TLMI Method, 180° removal, 300 | | | | |
| Service Temperature | -40°F t | o 300°F (-40°C to 149°C) | | | |
| Minimum Application Temperature | 50°F (10°C) | | | | |
| Convertability | The firmness of 3M [™] High Precision Acrylic Adhesive 310 is specifically designed to be compatible with thermal transfer and laser technologies. Adhesive processing issues are not anticipated when proper roll tensions, handling and storage conditions are used. Please refer to the the die cutting/converting section of this data page or the "Guide to Converting and Handling Label Products" technical bulletin for additional information. | | | | |

Typical Peel Adhesion Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Adhesion: 180° peel test procedure is ASTM D 3330.

90° peel test procedure is ASTM D 3330 modified for the angle change.

| | Initial (10 Minute Dwell/RT) | | | | Conditioned for 3 Days at Room Temperature 72°F (22°C) | | | |
|-----------------|---------------------------------|----------|---------|----------|---|----------|----------|----------|
| | 180° | ' Peel | 90° | Peel | 180° Peel | | 90° Peel | |
| Surface | Oz./In. | N/100 mm | Oz./In. | N/100 mm | Oz./In. | N/100 mm | Oz./In. | N/100 mm |
| Stainless Steel | 43 | 47 | 35 | 38 | 51 | 56 | 41 | 45 |
| Polycarbonate | 47 | 51 | 37 | 40 | 52 | 57 | 43 | 47 |
| Polypropylene | 18 | 20 | 16 | 18 | 18 | 20 | 24 | 26 |
| Glass | 52 | 57 | 34 | 37 | 68 | 74 | 47 | 51 |
| HD Polyethylene | 24 | 26 | 16 | 18 | 33 | 36 | 20 | 22 |
| LD Polyethylene | 20 | 22 | 12 | 13 | 32 | 35 | 22 | 24 |

| | Conditioned for 3 Days at 120°F (49°C) | | | | Conditioned for 24 hours at 90°F (32°C) at 90% Relative Humidity | | | |
|-----------------|--|--------------------|---------|-----------|---|----------|---------|----------|
| | 180° | 180° Peel 90° Peel | | 180° Peel | | 90° Peel | | |
| Surface | Oz./In. | N/100 mm | Oz./In. | N/100 mm | Oz./In. | N/100 mm | Oz./In. | N/100 mm |
| Stainless Steel | 60 | 66 | 46 | 50 | 74 | 81 | 46 | 50 |
| Polycarbonate | 41 | 45 | 32 | 35 | 62 | 68 | 40 | 44 |
| Polypropylene | 35 | 38 | 30 | 33 | 38 | 42 | 27 | 30 |
| Glass | 68 | 74 | 42 | 46 | 66 | 72 | 32 | 35 |
| HD Polyethylene | 30 | 33 | 20 | 22 | 35 | 38 | 27 | 30 |
| LD Polyethylene | 5 | 4 | 8 | 9 | 20 | 22 | 24 | 26 |

Environmental
PerformanceNote: The following technical information and data should be considered representative
or typical only and should not be used for specification purposes.

The properties defined are based on four hour immersions at room temperature $(72^{\circ}F/22^{\circ}C)$ unless otherwise noted. Samples were applied to stainless steel panels 24 hours prior to immersion and were evaluated one hour after removal from the solution for peel adhesion. Adhesion measured at 180° peel angle (ASTM D 3330) at 12 inches/minute.

Chemical Resistance:

| | Adhesion to S | tainless Steel | Appearance | Edge Penetration |
|--|---------------|----------------|--------------|------------------|
| Chemical | Oz./in. | N/100 mm | Visual | Millimeters |
| Isopropyl Alcohol | 54 | 59 | No change | 1 |
| Detergent 1% Alconox [®] Cleaner | 66 | 72 | No change | 0 |
| Engine Oil (10W30) @ 250°F (121°C) | 70 | 77 | 77 No change | |
| Water for 48 hours | 72 | 79 | No change | 0 |
| рН 4 | 70 | 77 | No change | 0 |
| рН 10 | 66 | 72 | No change | 0 |
| 409 [®] Formula | 65 | 71 | No change | 0 |
| Toluene | 29 | 32 | No change | 6.3 |
| Acetone | 38 | 42 | No change | 4.5 |
| Brake Fluid | 77 | 84 | No change | 0 |
| Gasoline | 32 | 35 | No change | 5.5 |
| Diesel Fuel | 55 | 60 | No change | 1 |
| Mineral Spirits | 48 | 52 | No change | 2.3 |
| Hydraulic Fluid | 58 | 63 | No change | 0 |

Temperature Resistance: When applied to stainless steel. Other substrates should be tested per application.

300°F (149°C) for 24 hours:

-40°F (-40°C) for 10 days:

no significant visual change 0.7% MD shrinkage 0.8% CD shrinkage no significant visual change

Humidity Resistance:

Accelerated Aging: ASTM D 3611:

24 hours at 100°F (38°C) and 100% relative humidity:

no significant change in appearance or adhesion

96 hours at 150°F (65°C) and 80% relative humidity

| Product | | Rate of Removal | Gram/Inch Width | N/100 mm |
|--|--|------------------|--------------------|----------|
| 3M™ Thermal Transfer Polyester Label Material 7816 & 7875 | 180° Removal of Liner from Facestock | 90 inches/minute | 11 | 0.42 |
| 3M™ Thermal Transfer Polyester Label Material 7816FL | 180° Removal of Liner from Facestock | 90 inches/minute | 8 | 0.31 |
| 3M label material 7816 & 7875 | 180° Peel Adhesion from Stainless Steel | 12 inches/minute | 49 | 1.89 |
| 3M label material 7816FL | 180° Peel Adhesion from Stainless Steel | 12 inches/minute | 49 | 1.89 |

| Application Techniques | For maximum bond strength, the surface should be clean and dry. Typical cleaning solvents are heptane and isopropyl alcohol.* | | | | |
|---------------------------|---|--|--|--|--|
| | For best bonding conditions, application surface should be at room temperature or higher. Low temperature surfaces, below 50°F (10°C), can cause the adhesive to become so firm that it will not develop maximum contact with the substrate. Higher initial bonds can be achieved through increased rubdown pressure. | | | | |
| | *When using solvents, read and follow the manufacturer's precautions and directions for use. | | | | |
| Printing | Facestock is topcoated for improved ink receptivity and is designed for thermal transfer printing. It is printable by all standard roll processing methods including flexography, hot stamp, letterpress, and screen printing. | | | | |
| | Thermal Transfer Printing | | | | |
| | Printer: UL no longer requires evaluation and listing of specific printers. | | | | |
| | Ink Ribbon/UL Recognized Components | | | | |
| | Advent: 301 Black; 303 Black; 501 Black; 501 Red; 501 Blue; 501 Green | | | | |
| | Armor: AXR-7; AXR-7+; AXR-600 | | | | |
| | Astromed: R5 | | | | |
| | CP: 5440 Red; 5640 Blue; 5940 Black | | | | |
| | Dasco: DR-74; DR-84 | | | | |
| | Great Ribbon: SDR | | | | |
| | Iimak: SH-36; SP-330; PrimeMark | | | | |
| | Intermec: 053258-2; 054048-4 | | | | |
| | ITW: B324 | | | | |
| | Japan Pulp and Paper: JP Resin 1; JP Resin 2 Blue; JP Resin 2 Red (suitable for indoor use only); JP Resin 2 Green (suitable for indoor use only) | | | | |
| | Kurz: K500; K501 | | | | |
| | Markem: 716 (suitable for indoor use only) | | | | |
| | Mid City Columbia: CGL-80; CGL-80HE | | | | |
| | NCR: Matrix Resin; Matrix; PaceSetter; Promark II; Ultra V | | | | |
| | Pelikan: T016 | | | | |
| | Ricoh: B110A; B110C; B110CX | | | | |
| | Sato: Premier 1 | | | | |
| | Sony: 4070; 4072; 4075; 4085; 5070; Signature Series Resin; Signature Series Wax | | | | |
| | UBI: HR03; HR04 | | | | |
| | Zebra: 5095; 5099; 5100; 5175 | | | | |

| Die Cutting / Converting | Rotary die cutting is recommended. Fanfolding of labels is not recommended. Small labels should be evaluated carefully. Winding tensions should be kept at a minimum to help prevent the adhesive from oozing. |
|--|---|
| Packaging | Finished labels should be stored in plastic bags. |
| Storage | Store at room temperature conditions of 72°F (22°C) and 50% relative humidity. |
| Shelf Life | If stored under proper conditions, product retains its performance and properties for two years from date of manufacture. |
| Technical Information | The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed. |
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| | This Industrial Adhesives and Tapes Division product was manufactured under a 2M quality outem registered to ISO 2004; 2000 standard |
| | This industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards. |



Industrial Adhesives and Tapes Division Converter Markets

1030 Lake Road Medina, OH 44256-0428 800-422-8116 • 877-722-5072 (fax) www.3M.com/converter



Recycled Paper 40% pre-consumer 10% post-consumer 3M is a trademark of 3M Company. Alconox is a registered trademark of Alconox, Inc. 409 is a registered trademark of Clorox. Printed in U.S.A. ©3M 2009 70-0709-1031-3 (7/10) Attached are several photos of the unit as it is removed from the box

The unit is sold with the rear mounting bracket attached.

When the mounting bracket is removed and is positioned for use the rear of the device can be observed

The label is placed on the rear of the device.

The rear of the device is a clear resin face as the circuit board is potted.

Once potted the compliance label attached in the position shown.

The back is loosely placed in position and it is inserted into the box.

When the customer gets it and the first thing they do, as the back falls off, is retrieve the back/mounting plate to screw the back/mounting plate to where it is to be mounted.

i.e. A wall.

This would make it easily visible out of the box.

The label is partially visible before the back is retrieved and fully visible when the back is off.

When the unit is in its final resting place it has a small locking screw inserted in the bottom to lock the unit onto the back/mounting plate.

Also the FCC statement is in the manual.







