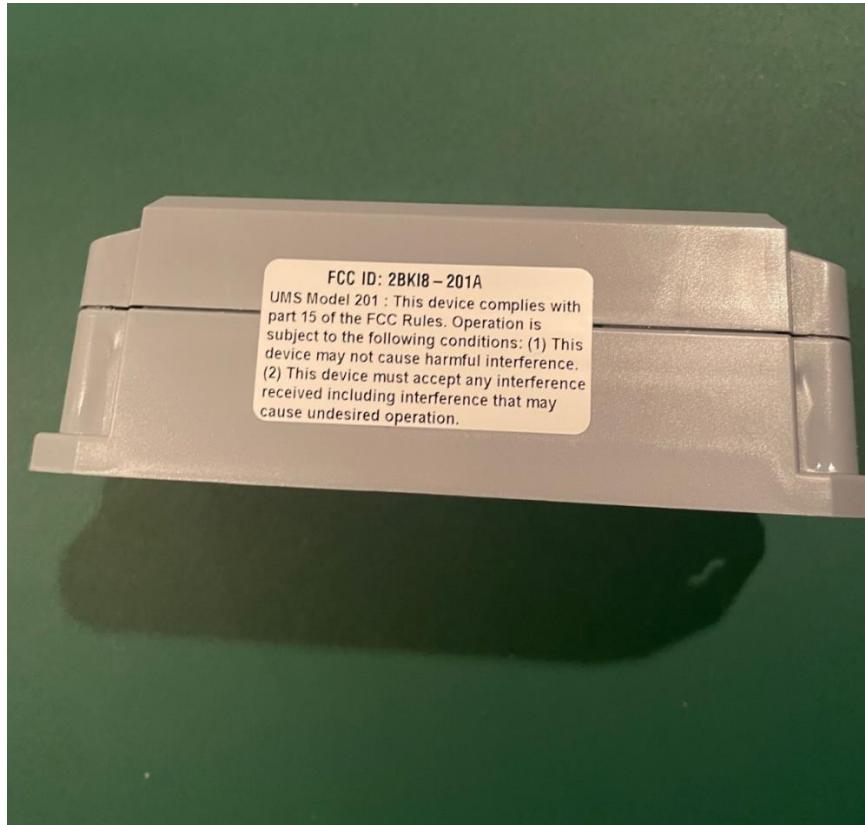




Label & Label Location of Tag



ID Label Material: Thermal transfer, acrylic label with a high-performance **permanent** acrylic adhesive

Sincerely,

David G Evans

CTO, United Mesh Solutions, LLC

Dave.evans@unitedmesh.com



Z-Endure™4000T

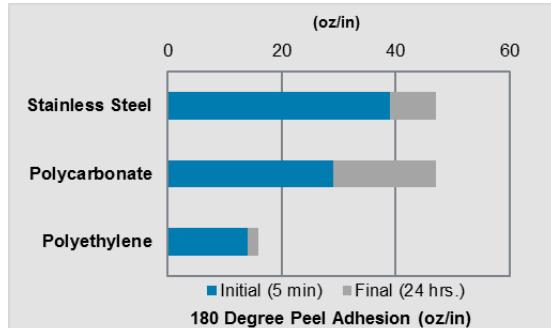
FEATURES

- Thermal transfer, acrylic label with a permanent acrylic adhesive
- Excellent smear/scratch resistance
- Excellent durability and chemical resistance
- Special acrylic film offers 10 year outdoor durability
- Available in white (05827RM)

MATERIAL CONSTRUCTION

| Component | Description | Caliper |
|--------------------|-----------------------------------|----------------|
| Facestock | White coated acrylic film | 2.0 mil |
| Adhesive | Permanent, acrylic-based | 0.8 mil |
| Liner | 50 lb. semi-bleached, kraft stock | 3.2 mil |
| TOTAL ± 10% | | 6.0 mil |

ADHESIVE STRENGTH



TEMPERATURE PERFORMANCE

| Minimum Application Temperature | Service Temperature | Optimal Storage Conditions |
|---------------------------------|-------------------------------------|----------------------------|
| 50° F (10° C) | -40° F to 212° F (-40° C to 100° C) | 72° F (22° C) at 50% RH |

SUGGESTED APPLICATIONS

- Outdoor tools/ equipment



Expected Exterior Life

10 years

CHEMICAL RESISTANCE

| | Chemical | Suggested Ribbon | | |
|----------|----------------|------------------|------|------|
| | | 6200 | 5095 | 5100 |
| Weak | Blood | ● | ● | ● |
| | Body Fluid | ● | ● | ● |
| | Salt Water | ● | ● | ● |
| | Water | ● | ● | ● |
| | Window Cleaner | ● | ● | ● |
| Moderate | Alcohol | ● | ● | ● |
| | Ammonia | ● | ● | ● |
| | Bleach | ● | ● | ● |
| | IPA | ● | ● | ● |
| Harsh | Gasoline | ● | ● | ● |
| | Grease | ● | ● | ● |
| | Oil | ● | ● | ● |
| Extreme | Acetone | NR | NR | NR |
| | IR Reflow | NR | NR | NR |
| | MEK | NR | NR | NR |
| | TCE | NR | NR | NR |
| | Xylene | NR | NR | NR |

● Recommended ● Test in Your Application NR Not Recommended

All products should be pre-tested to ensure it meets all intended requirements of specific end-use applications.

For more information, visit www.zebra.com/supplies

Product Performance and Suitability: The information contained in this document is to be used for guidance only and is not intended for use in setting specifications. All purchasers of Zebra products shall be solely responsible for independently determining if the product conforms to all requirements of their unique application.

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Z-Endure™4000T

QUV Weathering Machine Testing

Samples were printed with Zebra 5095 and 5100 ribbons and applied to aluminum panels at room temperature. Samples were subjected to QUV Weathering Machine Cycles which alternate between 8 hours UV at 60°C, 4 hours condensation at 50°C. After simulating 10 years* of outdoor exposure, the following results were noted.

| Adhesive Durability | Facestock Appearance | Print Quality | Facestock Degradation (Chalking, cracking, shrinkage, etc.) |
|---------------------|----------------------|---------------|--|
| No Change | No Change | No Change | None observed at 5,000 hours. Very slight chalking at 10,000 hours. |

*One year of Southern Florida exposure is approximated by 1000 hours in the QUV with above cycles.

All products should be pre-tested to ensure it meets all intended requirements of specific end-use applications.

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ZEBRA

5095 Performance Resin Ribbon

Our performance resin ribbon formulation produces images resistant to most harsh environments: smearing, moisture, abrasion, extreme temperature and chemicals when printed on Zebra® synthetic label and tag materials.

UL/ cUL Certifications with the following materials:

- Z-Supreme 2000T (UL, cUL)
- Z-Supreme 4000T (UL, cUL)
- Z-Ultimate® 4000T White & Silver (UL, cUL)
- Z--Ultimate® 4000T Removable (UL, cUL)
- Z--Ultimate® 4000T High-Tack (UL, cUL)
- Z--Ultimate® 3000T White & Silver (UL, cUL)
- Z-Ultimate® 2000T White (UL, cUL)
- Z-Xtreme 4000T White & Silver (UL, cUL)
- Z-Xtreme 4000T High-Tack White & Silver (UL, cUL)
- Z-Xtreme 2000T White, Silver & Clear (UL, cUL)
- 8000T Void Matte (UL, cUL)



TECHNICAL SPECIFICATIONS

| Attribute | Specification |
|-----------------------|----------------------|
| Color | Black |
| Ink Formulation | Resin |
| Base Film | Polyester |
| Base Film Caliper | 4.5 microns |
| Total Caliper | 6.5 microns ± 10% |
| Scanning Capabilities | IR and Visible Light |

Recommended Storage Conditions: 72° F (22° C) at 50% RH

Shelf Life 1 year

For testing of this product, please order sample ribbon 05095BK08305.

SUGGESTED APPLICATIONS

- Labels which are repeatedly wand-scanned



- Shelf and scan-pallet labels



- Labels subject to abrasion or friction



- Outdoor labeling applications in extreme environments



- Chemical drum labeling applications



- Labels exposed to water, steam, alkali or acid solutions



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