



Z-Band® UltraSoft Wristbands

FEATURES

- Direct thermal patent-pending ultra-soft synthetic material
- Tamper-evident slits for security purposes.
- Provides superior image durability and tensile strength.
- Meets healthcare patient ID and safety goals (The Joint Commission), removes risk of data left on ribbons (HIPPA), and prevents medication and blood transfusion errors (FDA)
- Latex-free, waterproof, and resistant to smearing, abrasion, alcohol, mild cleaners and hand sanitizers such as Purell®.
- Are considered to be MR-Safe. Z-Band wristbands are made of polypropylene and vinyl. The direct thermal imaging chemistry is composed primarily of leuco dyes and developers. The inks / varnishes used are UV varnishes and water-based inks. There is no metal content in or on these particular patient identification bands. Therefore, Z-Band wristbands are considered to be MR-Safe.

MATERIAL CONSTRUCTION

| Component | Description | Caliper |
|--------------------|------------------------|----------------|
| Facestock | Clear matte vinyl film | 7.0 mil |
| TOTAL ± 10% | | 7.0 mil |

TEMPERATURE PERFORMANCE

| Minimum Application Temperature | Service Temperature | Optimal Storage Conditions |
|---------------------------------|---------------------------------------|----------------------------|
| NA | -40° F to 140° F (-40° C to 60° C) | 72° F (22° C) at 50% RH |

Expected Exterior Life

Not recommended for outdoor use

CHEMICAL RESISTANCE

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

● Recommended ● Test in Your Application NR Not Recommended

SUGGESTED APPLICATIONS

- Hospital wristbands for positive patient identification



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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Recommended Darkness and Print Speed Settings:

- Wristband Cartridge Printers -- Print speed and darkness setting are automatically set by the cartridge
- ZPL Printers: Darkness: 22 Print Speed: 2ips
- EPL Printers: Darkness: 13 Print Speed: 2ips

Durability Testing:

The image durability of a 5 mil narrow-bar 16 digit Code 128 C bar code printed on a Z-Band Comfort wristband at Zebra's recommended darkness and print speed settings was measured by scanning with a MS1690 Focus Area Imaging Bar Code Scanner after exposure to solvents, abrasion and water. For each test performed, a "Pass" or "Fail" designation was noted. Following are definitions of the designations:

- Pass = Immediate scan of bar code without repeated attempts
- Fail = Failure of bar code to scan or required repeated attempts to scan

| | |
|--------------------------|---|
| Abrasion Test: | Pass: Exceeds 1000X with a dry crocking cloth. |
| Water: | Pass: Withstands total immersion in 105° F/40° C water for up to 6 hours. |
| 91% IPA: | Pass: Withstands 50X rubs with soaked cotton applicator |
| 70% IPA: | Pass: Withstands 50X rubs with soaked cotton applicator |
| Betadine: | Pass: Withstands 100X rubs with soaked cotton applicator |
| Purell®: | Pass: Withstands 50X rubs with soaked cotton applicator |
| Tensile Strength: | Pass: Withstands up to 45 pounds of force. |

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