



ZEBRA

Z-Band Direct Wristbands

FEATURES

- Direct thermal white polypropylene wristband with a permanent acrylic adhesive tab for securement
- Several size options:
 - Adult: 1" x 11" and 0.75" x 11"
 - Pediatric: 1" x 7"
 - Infant: 1" x 6"
- Seven color options for color coding. The 1" adult wristbands are available with red, blue, green, yellow, pink, purple or orange stripes.
- Tamper-evident slits for security purposes.
- Z-Band Direct wristbands provide 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 smear, abrasion, alcohol, mild cleaners and more
- 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	Direct thermal polypropylene	6.0 mil
TOTAL ± 10%		6.0 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 ID



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

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.

NA and Corporate Headquarters | +1 800 423 0442 | inquiry4@zebra.com

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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.

Additional Testing:

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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