



Specification Sheet

Z-Band Direct Wristbands

Features:

- Direct thermal white polypropylene wristband (66593RM) with a permanent acrylic adhesive paper tab for securement
- Several size options:
 - Adult: 1" x 11" and 0.75" x 11"
 - Pediatric: 1" x 7"
 - Infant: 1" x 6"
- Six color options for color coding. The 1" adult wristbands are available with red, blue, green, yellow, pink or orange stripes.
- Tamper-evident slits for security purposes.
- Increased durability. 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
- MR Safe

Suggested Applications:

- Hospital wristbands for positive patient ID
- Event admissions: Sports, concerts, festivals, etc.
- Water and amusement park admissions
- Cruise ships and resorts; cash-free transactions

Material Construction:

Description		Caliper
Facestock	Direct thermal polypropylene	6.0 mil +/- 10%

Temperature Performance:

- Minimum Application Temperature: NA
- Service Temperature: -40° F to 140° F (-40° C to 60° C)
- Storage Conditions: 32° F to 70° F (0° C to 21° C) at 35% to 50% RH
- Expected Exterior Life: Not recommended for outdoor use



Recommended Darkness and Print Speed Settings:

- 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 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 hrs.
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.

Applications with Chemicals

	Weak					Moderate				Harsh			Extreme				
	Blood	Body Fluid	Salt Water	Water	Window Cleaner	Alcohol	Ammonia	Bleach	IPA	Gasoline	Grease	Oil	Acetone	IR Reflow	MEK	TCE	Xylene
DT	X	X	X	X		X			X								

X indicates acceptable chemical resistance

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.

