

Media Type	Label			Permanent	<ul> <li>✓</li> </ul>
	Receipt		Adhesive Type	Removable	
	Tag			No Adhesive	
	Wristband	✓	Environment	Indoor	✓
Material Type	Paper		Environment	Outdoor	✓
	Synthetic	✓		Cold Temperature	✓
Printing Technology	Direct Thermal		Properties	Deep Freeze	✓
	(no Ribbon Required)	<b>√</b>	Properties	High Tack	
	Thermal Transfer (Ribbon Required)			Chemical Resistance	Mild
Finich	Matte		Suggested	Healthcare	<ul> <li>✓</li> </ul>
Finish	Gloss	✓	Vertical	Hospitality	

## **Additional Features**

- No ribbon required for direct thermal printing, therefore only one stock item needed
- Quick and easy to print and secure, with peel and seal tab closure
- Tamper evident slits and high performance permanent rubber adhesive means bands cannot be removed and reapplied
- Excellent print quality down to 5mil narrow barcodes
- Latex free, BPA free and waterproof
- Resistant to smearing, abrasion, alcohol, mild cleansers, hand sanitiser gels and other substances typically found in hospitals
- Features a patented antimicrobial coating that protects the wristband from degradation
- Meets healthcare patient identification and safety requirements, removes risk of data left on ribbons and helps to prevent medication and blood transfusion errors (HIPAA)
- Considered to be "MR-Safe". Z-Band wristbands are made of polypropylene and vinyl. The direct thermal imaging chemistry is composed primarily of leuco dies 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.

# Suggested Applications

- Safe, secure, positive patient ID for hospitals
- Event admissions
- Water parks, theme parks and resorts
- Cash free transactions







## **Technical Specifications**

	Description	Caliper				
Facestock	Gloss thermal imaging polypropylene	152.4 microns ± 10%				
Adhesive Tab	Permanent rubber adhesive on kraft liner	90 microns ± 10%				

#### **Recommended Zebra Printers:** HC100, desktop, mid-range and high performance thermal printers capable of handling 25mm wide media Minimum Application Temperature: 10°C When the label is applied, the environment and surface should be above this temperature Service Temperature Range: -40°C to 60°C Following correct application and appropriate dwell time (usually 24hrs) the media will withstand this temperature range 6 months duration when stored at 22°at **Recommended Storage Conditions:** Storage of product before use 50% RH **Expected Life Span in Application:** Indoor use and outdoor use, short term only Following correct application and appropriate Please test in application dwell time (usually 24hrs) we expect, but do not warrant, a life span as indicated ZPL Printers; Darkness: 22 Print Speed: **Recommended Darkness and Print** 50mm/sec (2ips) **Speed Settings:** EPL Printers; Darkness: 13 Print Speed: 50mm/sec (2ips) Printer settings automatically programmed in Zebra HC100 printer at 102mm/sec (2ips)

	Weak			Moderate Harsh				Extreme									
	Blood	Body Fluid	Salt Water	Water	Window Cleaner	Alcohol	Ammonia	Bleach	PA	Gasoline	Grease	Oil	Acetone	IR Reflow	MEK	тсе	Xylene
DT	✓	✓	1	~		✓			1								

## **Expected Chemical Resistance**

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 indicates acceptable chemical resistance



# **Z-Band Direct Performance and Durability**

The image durability of a 5 mil narrow-bar 16 digit Code 128 barcode printed on a Zebra wristband at Zebra's recommended darkness and speed settings was measured by scanning with an MS 1690 Focus Area Imaging Bar Code Scanner after exposure to solvents, abrasion and water. For each test performed, a "Pass" or "Fail" was noted.

Pass= Immediate scan of barcode without repeated attempts

Test	Outcome			
Abrasion Test	Pass: Exceeds 1000x with a dry crocking cloth			
Water	Pass: Withstands total immersion in 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 <sup>®</sup>	Pass: Withstands 50x rubs with soaked cotton applicator			
Tensile strength	Pass: Withstands up to 45 pounds of force			

Fail= Failure of barcode to scan or required repeated attempts to scan

For details of durability testing and information regarding Zebra's patent-pending anti-microbial feature, please visit www.zebra.com or contact your Supplies Specialist Representative.

# **Z-Band Skin Irritation Testing**

Independent laboratory test for skin irritability were conducted by Toxicant Corporation, 15 Wiggins Ave. Bedford, MA 01730, USA.

## Test method

The test articles received a topical 4-hour application of the USP 0.9% Sodium Chloride for Injection (Nalco) and Cottonseed Oil (CSO) extracts of the Z-Band materials. After 72 hours, there were no signs of erythema or edema.

Z-Band wristbands were tested to FDA 21CFR, Part 58, referencing:

- ISO 10993-10, 2002, Biological Evaluation of Medical Devices—Part 10: Tests for Irritation and Delayed-Type Hypersensitivity
- ISO 10993-12, 2002, Biological Evaluation of Medical Devices—Part 12: Sample Preparation and Reference Materials
- ISO/IEC 17025, 2005, General Requirements for the Competence of Testing and Calibration Laboratories

Z-Band wristbands are not likely to cause dermal irritation and are considered a negligible irritant, according to Toxikon Corporation.



## **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.

For testing of this product, please contact your Supplies or Healthcare Specialist Representative.