

Z-Perform™ 1000D

Media Type	Label	✓	Adhesive Type	Permanent	✓
	Receipt			Removable	
	Tag			No Adhesive	
	Wristband		Environment	Indoor	✓
Material Type	Paper	✓		Outdoor	
	Synthetic		Properties	Cold Temperature	✓
Printing Technology	Direct Thermal (no Ribbon Required)	✓		Deep Freeze	
	Thermal Transfer (Ribbon Required)			High Temperature	
Finish	Matte	✓		Ultra High Temperature	
	Gloss			High Tack	
				Chemical Resistance	-

Note: Z-Perform 1000D is not recommended for applications involving long term exposure to sunlight, extreme heat or for application on a PVC surface.

Additional Features

- No ribbon required for direct thermal printing, therefore only one stock item needed
- Produces high contrast black images with recommended Zebra printers
- Good adhesion to a wide variety of surfaces
- ISEGA approval for direct contact with dry and moist non-fatty foods
- Adhesive complies with European food regulations EC 1935/2004, EU 10/2011 and BfR XIV for direct contact with dry, moist and such kind of fatty foodstuffs which have a reduction factor of at least 3
- Adhesive complies with FDA 175.105 for direct contact with dry foodstuffs, or alternatively separated by a functional barrier
- Latex free adhesive

Suggested Applications

- Indoor general purpose labelling
- Labelling of most packaging materials
- Shipping labels
- Picking and receiving in warehousing applications
- Shelf edge labelling, product and price labelling in retail
- Product Identification

Technical Specifications

	Description	Caliper
Facestock	Matte white uncoated thermal imaging paper	79 microns
Adhesive	Permanent acrylic adhesive	12 microns
Liner	60gsm glassine liner	51 microns
Total		142 microns $\pm 10\%$

Recommended Zebra Printers:

Mobile, desktop, mid-range and high-performance thermal printers

Minimum Application Temperature:

When the label is applied, the environment and surface should be above this temperature

5°C

Service Temperature Range:

Following correct application and appropriate dwell time (usually 24hrs) the media will withstand this temperature range

-20°C to 50°C

Recommended Storage Conditions:

Storage of product before use

6 months duration when stored at 20°C to 25°C at 40% to 50% RH

Expected Life Span in Application:

Following correct application and appropriate dwell time (usually 24hrs) we expect, but do not warrant, a life span as indicated

Indoor use, for up to 1 year

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 material, please order from the ZipShip price list or order sample roll SAMPLE65345 for mid-range and industrial printers or SAMPLE65345-D for desktop printers.

Z-Select™ 2000D



Available
from stock
on ZipShip

Media Type	Label	✓	Adhesive Type	Permanent	✓
	Receipt			Removable	
	Tag			No Adhesive	
	Wristband		Environment	Indoor	✓
Material Type	Paper	✓		Outdoor	
	Synthetic		Properties	Cold Temperature	✓
Printing Technology	Direct Thermal (no Ribbon Required)	✓		Deep Freeze	✓
	Thermal Transfer (Ribbon Required)			High Temperature	
Finish	Matte	✓		Ultra High Temperature	
	Gloss			High Tack	
				Chemical Resistance	-

Note: Z-Select 2000D is not recommended for applications involving long term exposure to sunlight or extreme heat.

Z-Select materials feature a protective topcoat, which provides the following benefits over an equivalent uncoated material (e.g. Z-Perform)

- Excellent print quality and definition
- Faster print speeds
- Improved printhead life
- Resistance to moisture, oils and other environmental factors

Additional Features

- No ribbon required for direct thermal printing, therefore only one stock item needed
- Adhesive carries excellent low temperature resistance
- Adhesive complies with European food regulation EC 1935/2004, EU 10/2011 and BfR Recommendation XXI for direct contact with dry and moist, non-fatty foodstuffs. It also complies with FDA 175.105 for direct contact with dry foodstuffs
- BPA free
- Latex free adhesive

Suggested Applications

- Shelf edge labelling, product and price labelling in retail applications
- Chiller and freezer applications
- Product identification
- Sample labelling in healthcare
- Shipping, picking and receiving labels in warehousing applications
- Box and pallet labelling

Technical Specifications

	Description	Caliper
Facestock	Matte white topcoated thermal imaging paper	81 microns
Adhesive	Permanent rubber adhesive	13 microns
Liner	62gsm glassine liner	51 microns
Total		145 microns $\pm 10\%$

Recommended Zebra Printers:

Mobile, desktop, mid-range and high-performance thermal printers

Minimum Application Temperature:

When the label is applied, the environment and surface should be above this temperature

0°C

Service Temperature Range:

Following correct application and appropriate dwell time (usually 24hrs) the media will withstand this temperature range

-40°C to 50°C

Recommended Storage Conditions:

Storage of product before use

6 months duration when stored at 20°C to 25°C at 40% to 50% RH

Expected Life Span in Application:

Following correct application and appropriate dwell time (usually 24hrs) we expect, but do not warrant, a life span as indicated

Indoor use, for up to 1 year

Product Performance and Suitability

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For testing of this material, order from the ZipShip price list or order sample roll SAMPLE5311 or SAMPLE5311-D for desktop printers.

PolyPro™ 4000D



Available
from stock
on ZipShip

Media Type	Label	✓	Film Type	Polyethylene	
	Receipt			Polyolefin	
	Tag			Polypropylene	✓
	Wristband			Polyester	
Material Type	Paper			Polyimide	
	Synthetic	✓	Properties	Cold Temperature	✓
Printing Technology	Direct Thermal (no Ribbon Required)	✓		Deep Freeze	
	Thermal Transfer (Ribbon Required)			High Temperature	
Adhesive Type	Permanent	✓		Ultra High Temperature	
	Removable			High Tack	
	No Adhesive			Chemical Resistance	-
Finish	Matte	✓	Environment	Indoor	✓
	Gloss			Outdoor	✓

Note: PolyPro 4000D is not recommended for applications involving long term exposure to sunlight or extreme heat. It is only recommended for short-term outdoor use.

Additional Features

- No ribbon required for direct thermal printing, therefore only one stock item needed
- Produces high contrast images
- Offers good adhesion to a wide range of surfaces
- ISEGA approved for direct contact on dry, non-fatty foods
- Adhesive complies with European food regulations EU 10/2011 and FDA 175.105 for direct contact with dry, non-fatty foodstuffs
- Tear and water resistant
- BPA free
- Latex free adhesive

Suggested Applications

- Indoor general purpose labelling
- Tear resistant shelf-edge labelling
- Warehouse tote bin labelling
- Labelling of most packaging materials and plastic substrates
- Labelling of patient and laboratory samples
- Short term outdoor retail labelling e.g. garden centres

Technical Specifications

	Description	Caliper
Facestock	Matte white topcoated thermal imaging polypropylene	105 microns
Adhesive	Permanent acrylic adhesive	18 microns
Liner	60gsm glassine liner	53 microns
Total		176 microns $\pm 10\%$

Recommended Zebra Printers:

Mobile, desktop, mid-range and high-performance thermal printers

Minimum Application Temperature:

When the label is applied, the environment and surface should be above this temperature

5°C

Service Temperature Range:

Following correct application and appropriate dwell time (usually 24hrs) the media will withstand this temperature range

-20°C to 80°C

Recommended Storage Conditions:

Storage of product before use

1 year duration when stored at 20°C, at 50% RH

Expected Life Span in Application:

Following correct application and appropriate dwell time (usually 24hrs) we expect, but do not warrant, a life span as indicated

Indoor use, up to 1 year
Outdoor use, short term***

*****durability depends on weather conditions, UV and heat exposure, testing recommended**

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For testing of this material, please order from the ZipShip price list or order sample roll SAMPLE65644.

8000D UltraCool

L'étiquette thermique directe peut supporter des températures allant jusqu'à -80°C

L'identification fiable des micro-organismes, du sérum, des composants biologiques et des échantillons de laboratoire dans des environnements de congélation à ultra-basse température est essentielle pour garantir une recherche médicale précise et un traitement efficace en laboratoire. Seules certaines étiquettes peuvent résister à des environnements à très basse température. Si l'étiquette devient illisible ou manquante, cela peut avoir un impact sur le succès d'un essai clinique ou entraîner un gaspillage d'échantillons et la nécessité de les collecter et de les tester à nouveau - ce qui peut retarder le diagnostic et le traitement du patient. L'étiquette 8000D UltraCool de Zebra est un matériau thermique direct qui ne nécessite pas l'utilisation d'un ruban pour créer une image et est conçu pour répondre à cet environnement difficile. Elle est dotée d'un adhésif spécial basse température pour un stockage à très basse température (-80°C), garantissant que les biens essentiels restent identifiables jusqu'à leur utilisation, leur test ou leur élimination.



Conçue pour maintenir l'adhésion

L'étiquette 8000D UltraCool a été conçue pour maintenir son adhérence lorsqu'elle est exposée à des températures allant jusqu'à -80°C, de sorte que les articles étiquetés qui doivent être stockés à très basse température restent identifiables par le personnel. Il est essentiel que les étiquettes restent en place afin d'éviter la duplication coûteuse du traitement des spécimens et des échantillons et les erreurs potentielles.

Une lisibilité fiable

Lorsque l'étiquette est appliquée sur des conteneurs stockés dans un congélateur à ultra-basse température, l'impression reste lisible, ce qui garantit la visibilité de l'identité de l'échantillon sur des périodes prolongées et lors d'inspections répétées.

Permettre l'impression mobile avec du matériel thermique direct

L'étiquette 8000D UltraCool de Zebra est un matériau thermique direct qui ne nécessite pas l'utilisation d'un ruban pour créer une image durable, ce qui permet au personnel de mettre facilement en œuvre l'impression mobile et de chevet pour travailler plus efficacement. Le personnel peut facilement imprimer des étiquettes sur le lieu de soins pour minimiser les erreurs, améliorer la sécurité des patients et permettre au personnel d'identifier, de suivre et de gérer efficacement les échantillons. L'impression est rapide et facile et ne nécessite qu'un seul article de fournitures, car le personnel n'a pas besoin d'installer un ruban pour imprimer une image durable.

Imprimez en toute confiance, imprimez de la qualité avec les fournitures certifiées Zebra

Les consommables pour l'impression influent sur tous les aspects, de la durée de vie des têtes d'impression au rendement opérationnel. C'est pourquoi nous concevons, produisons et pré-testons rigoureusement notre propre gamme de fournitures de Consommables pour l'impression thermique afin de garantir des performances optimales et constantes. Nous utilisons un contrôle de qualité en 23 points, certifié ISO 9001, pour garantir une qualité constante. Quel que soit le moment où vous commandez vos étiquettes, vous pouvez compter sur les mêmes performances.

Identifiez de manière fiable les micro-organismes, le sérum, les composants biologiques et les échantillons de laboratoire dans des environnements à très basse température avec l'étiquette 8000D UltraCool.

Pour en savoir plus, rendez-vous sur www.zebra.com/barcodesupplies

Caractéristiques techniques

Construction des matériaux

Frontal	Polyoléfine topcoated blanc mat 76 microns
Adhésif	Adhésif acrylique permanent 18 microns
Support	Doublure en glassine 60 g/m ² 53 microns
Épaisseur totale (+/- 10 %)	147 microns
Environnement	Utilisation intérieure, compatible avec les températures ultra-basses

Performance en matière de température

Température minimale d'application	-10° C
Gamme de températures en service	-80° C à 50°C

Imprimantes et rubans recommandés

Imprimantes	Imprimantes thermiques mobiles, de bureau, de milieu de gamme et de haute performance
Rubans	S/O

Force adhésive

Carton ondulé	S/O
Acier	S/O
Polycarbonate	S/O
Polyéthylène	S/O

Résistance chimique

Produits chimiques faibles	
Poche	Test dans votre application
Fluide corporel	Test dans votre application
Eau salée	Test dans votre application
Eau	Test dans votre application
Nettoyeur de vitres	Test dans votre application
Produits chimiques modérés	
Alcool	Test dans votre application
Ammoniac	Test dans votre application
Eau de javel	Test dans votre application
IPA	Test dans votre application
Produits chimiques dangereux	
Essence	Non recommandé
Graisse	Non recommandé
Produits chimiques extrêmes	
Acétone	Non recommandé
Refusion IR	Non recommandée
MEK	Non recommandé
TCE	Non recommandé

Xylène	Non recommandé
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Performance et adéquation du produit

Conditions de stockage recommandées	Durée de 1 an lorsque stocké à 20°C à 50 % RH
Durée de vie prévue dans l'application	Utilisation intérieure, pour 1 an et plus
Numéro de pièce de l'échantillon	ÉCHANTILLON33674

Essais de matériaux dans les applications finales

Les informations du présent document ne sont données qu'à titre indicatif et ne sauraient être utilisées pour définir des spécifications. Tous les acheteurs de produits Zebra sont seuls responsables pour déterminer la conformité du produit avec les exigences de leur application.

Garantie

Les fournitures sont garanties pièces et main-d'œuvre pendant 1 (un) an à compter de leur date d'expédition. Pour consulter la déclaration de garantie dans son intégralité, rendez-vous sur : www.zebra.com/warranty

Marchés et applications

Secteur de la santé

- Laboratoires médicaux et étiquetage des spécimens
- Marquage des échantillons soumis à des cycles de congélation-décongélation
- Applications à température froide. Pour une utilisation dans les congélateurs à ultra-basse température (ULT), pour le marquage des échantillons biologiques et des micro-organismes
- Étiquetage d'échantillons médicaux où des imprimantes mobiles sont utilisées



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Z-Band® Direct


Available
from stock
on ZipShip

Media Type	Label		Adhesive Type	Permanent	✓	
	Receipt			Removable		
	Tag			No Adhesive		
	Wristband	✓				
Material Type	Paper		Environment	Indoor	✓	
	Synthetic	✓		Outdoor	✓	
Printing Technology	Direct Thermal (no Ribbon Required)	✓	Properties	Cold Temperature	✓	
	Thermal Transfer (Ribbon Required)			Deep Freeze	✓	
Finish	Matte			Suggested Vertical	High Tack	
	Gloss	✓			Chemical Resistance	Mild
				Healthcare	✓	
				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
- Designed with a patented antimicrobial coating which test results show, prevents the growth and survival of Methicillin-resistant Staphylococcus aureus (MRSA) Type II, Type III and Type IV in addition to S. aureus, P. aeruginosa and E. coli. Patent no. US9,114,187.
- Meets healthcare patient identification and safety requirements, removes risk of data left on ribbons and helps to prevent medication and blood transfusion errors (HIPAA)
- “MR-Safe” an item that poses no known hazards in all MRI environments



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 $\pm$ 10%
Adhesive Tab	Permanent rubber adhesive on kraft liner	90 microns $\pm$ 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

Recommended Storage Conditions:

6 months duration when stored at 22° at 50% RH

Storage of product before use

Expected Life Span in Application:

Indoor use and outdoor use, short term only
Please test in application

Following correct application and appropriate dwell time (usually 24hrs) we expect, but do not warrant, a life span as indicated

Recommended Darkness and Print Speed Settings:

ZPL Printers; Darkness: 22 Print Speed: 50mm/sec (2ips)
EPL Printers; Darkness: 13 Print Speed: 50mm/sec (2ips)
Printer settings automatically programmed in Zebra HC100 printer at 102mm/sec (2ips)

Expected Chemical Resistance

	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	✓	✓	✓	✓		✓			✓								



“✓” 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

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

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	Pass: Withstands 50x rubs with soaked cotton applicator
Tensile strength	Pass: Withstands up to 45 pounds of force

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.

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