SELECTOR GUIDE
ZEBRA CERTIFIED SUPPLIES

Zebra Certified Supplies

Print Confident. Print Secure. Print Zebra.

Printing supplies can impact everything from printhead lifespan to operational efficiency. That's why we produce our own line of thermal printing supplies to ensure consistent, optimized performance in Zebra printers. With Zebra Certified Supplies, customers get:

Consistently outstanding quality	Exceptional service	Unmatched thermal printing expertise
We painstakingly comb through thousands of raw materials and only use conversion processes, inks, varnishes, tools and equipment that are optimized for thermal printing. In addition, we subject every item to rigorous testing, ensuring premium craftsmanship and durability. Only the best become Zebra Certified Supplies.	One of the largest and most experienced thermal label convertors in the world, Zebra has the size, scale and infrastructure to meet your printing supply needs quickly and effectively.	With over five decades of experience, Zebra is known the world over for our exceptional quality, durability and dedication to thermal printing technologies.

Key Applications

Retail
Shelf-labeling, Markdown, Pharmacy, Item Labeling and Tagging

Healthcare
Patient Identification, Specimen Collection, Lab Specimen Processing

Transportation and Logistics
Shipping, Pallet Labeling, Packing Lists

Manufacturing
Product Identification, Work-in-Process, Parts Identification

Why Choose Zebra Certified Supplies?

Meet end-user needs and requirements with Zebra Certified Supplies. With access to over 1,000 combinations of high-quality labels, tags, receipt paper, wristbands and ribbons, in addition to over 1,000 stock ZipShip[SM] products, you will be able to meet the requirements of most applications.

In addition, Zebra has:

Five U.S. Locations	These locations ensure quick delivery.
Inventory Management Programs	These programs improve cost and delivery time.
Printhead Protection Programs	This program awards end-users who purchase Zebra Certified Supplies with free printheads. **Please see more details here**
Extensive Manufacturing Capabilities	Zebra manufacturing capabilities include RFID inlay insertion, Print and Encode RFID Service, laminating, perforations, face and back slits, custom sizes and color pre-printing.
An Experienced Supplies R&D Team	The team pre-tests all materials on Zebra printers and conducts additional testing to ensure it will meet the needs of the application.
ISO 9001:2015 Registered	Ensures you'll always receive consistent, quality products.

With more than 1,000 combinations of high-quality and reliable labels, tags, receipt paper, wristbands, RFID media, and ribbons, Zebra has a media solution for virtually any application. Whether you're facing shipping, electronic component manufacturing, prescription labeling, or even electronic citation applications, Zebra and our certified partners can provide an in-stock or custom-made solution for you.

Zebra has 5 U.S. locations ensuring quick delivery.

R&D Capabilities

With more than 30 years of experience working with thermal print and sensor technologies, our degreed and advanced degreed R&D team members have produced over 200 patents creating products to support our customers' needs. With three Innovation Labs (Materials Science and Thermal Printing, RFID Analysis and Design, and Analytical, Organic, Physical, and Polymer Chemistry), Zebra has the know how and experience to produce the right product for your application.

We Can Test

- Image abrasion / durability
- Accelerated outdoor life
- Adhesion strength on various materials
- Temperatures from -112°F / -80°C to 1,000°F / 538°C
- Material tear strength
- Harsh chemicals
- Printhead life
- Scanning Electron Microscope Analysis
- Advanced Chemical Analysis
- Advanced Micropscopy Analysis
- Polymer Design and Development
- Micro Encapsulation Design and Development
- RFID Antenna Design and Development
- Advanced RFID Analysis
- FTIR Analysis

Services Offered

- Application assistance and testing
- New material development
- Exact-match samples
- UL/cUL
- IMDS approvals

Manufacturing Capabilities

A world-class convertor of labels, tags, receipt paper and wristbands, Zebra specializes in narrow-web flexographic printing on thermal materials. By making and testing our own printer supplies, we can assure you receive the highest-quality products performance-matched to your Zebra printer and application. Our multiple manufacturing locations provide convenient shipping throughout the world.

Printing

- Up to twelve-color printing with special water-based inks for thermal materials
- Up to eight UV colors or coatings
- Front- and back-side printing
- Computerized vision-inspection systems
- UL mark
- Print and Encode RFID Service

Converting

- Roll-to-roll and fanfolding
- RFID Inlay Insertion
- Press widths from 7 inches to 26 inches
- Laminating
- Die cutting up to five stations
- Perforations, face slits, and back slits
- Adhesive deadening and spot coating
- UL/cUL

Finishing

- 3/4-inch to 6-inch cores
- Shrink-wrapping
- Custom kits

Custom Supplies

Discover the value of Zebra supplies

We specialize in manufacturing supplies to meet the exact requirements of an end-user. Whether a specialty material, configuration or pre-print is needed, we can meet your needs.

Zebra has intimate knowledge of thermal printers and understands the importance of using quality materials and processes. We offer over 300 pre-tested materials and have access to thousands more through our extensive network of suppliers. Explore some of our most common materials.

When you use Zebra Certified Supplies you can rest assured that the supplies you rely on to provide critical data to improve your operations, don't negatively affect your operational productivity and efficiency. Custom supplies are designed, manufactured and tested to high standards so you can be assured of the results.

- Experts available to assist in material selection
- Expedite service offered to reduce lead time
- Over 8,000 dies available
- Free dies on all custom media orders

Material recommendations at the click of a button

Find the correct materials for your application using Zebra's online tool, the Supplies Material Guide, at: supplies.zebra.com

To simplify the selection process when you speak to our experts, please provide the following information in your material selection:

Printer model

Resistance — chemical, scratch, etc.

Environment — indoors or outdoors, temperature, etc.

Surface — metal, plastic, rough, curved, etc.

Size — length, width, perforations, slits, etc

Please see more details here

Inventory Management Solutions

Money-Saving Options

We offer an array of inventory management programs for custom supplies. Because requirements vary, Zebra has developed three different inventory management solutions. From the simplicity of a blanket order to the power of our Inventory Management Program, we have a solution to help businesses save money and run more efficiently.

Blanket Order	3-6 Month Make and Hold	Supplies Management Program
• Price protection • Pre-scheduled shipments • Low minimum requirements	• Price protection • Flexible shipment dates and quantities • No inventory carrying costs • No lead times after initial run • Renewable	• Price protection • Same-day or next-day shipments • No inventory carrying costs • No lead times after initial run • Renewable

Sample Program

Methods to Acquire Sample Materials

Sample Packs

- Contain an array of materials
- Samples packs available:
  - Manufacturing
  - Retail
  - Transport and Logistics
  - RFID
  - Healthcare
  - Wristbands
  - Environmental Sensors
- Strip of Material
  - Evaluation of adhesive, thickness and durability

ZipShip Sample Roll

Available in different sizes of our most popular materials

- Full evaluation to test in application

Pilot Run

- Exact size and configuration.
- Intended to be used for demo and testing purposes.

Material Naming Convention

Example: 8000T Piggyback

Specialty	8000	T	Piggyback

Family	Classification	Print Technology	Unique Features
Z-Essentials Z-Perform™ Z-Select™ IQ Color PolyO™ PolyPro™ Z-Xtreme™ Z-Ultimate® Z-Supreme™ Z-Endure™ Specialty	500 1000 2000 3000 4000 5000 8000	D (Direct thermal) T (Thermal transfer)	Color Adhesive Tag / Receipt Material

Family

Zebra offers a variety of paper and synthetic media, which will meet the requirements of most applications. Paper offers an inexpensive way to print in a variety of general purpose applications, while synthetic offers more durable, long-lasting results with resistance to abrasion, moisture, and chemicals.

Paper	Synthetic
Z-Essentials Z-Perform Z-Select IQ Color Specialty	PolyO PolyPro Z-Xtreme Z-Ultimate Z-Supreme Z-Endure™

Classifications

Zebra media products are classified by their level of performance and cost. Specialty products are classified separately.

500-5000	8000
The higher the number, the higher the performance	Specialty products with some unique features designed for specialized applications

Print Technology

Thermal transfer technology uses a ribbon to transfer an image onto the label material. Direct thermal technology does not require a ribbon. Instead, a chemically coated heat-sensitive material produces images as heat is applied to the surface.

Direct Thermal	Thermal Transfer
• Primarily indoor use • Short to medium-term lifespan • Minimal chemical resistance • No ribbon	• Indoor or outdoor usage • Medium to long-term lifespan • Excellent chemical resistance • Ribbon needed

Unique Feature

The unique feature is a material attribute that differentiates the product. For example, the product can be described by the color, adhesive, material, or whether it is a tag or receipt.

Comparison of Thermal Transfer Ribbons

Ribbon	Formulation	Material Compatibility	Darkness Setting		Print Speed		Scratch / Smear Resistance		Chemical Resistance	
			Low	High	Low	High	Low	High	Low	High
1600 Standard	Wax	Coated Paper								
6000 Standard	Wax	Coated Paper								
2000 High-Performance	Wax	Coated Paper								
2100 High-Performance	Wax	Uncoated Paper / Coated Paper								
5319 Performance	Wax	Uncoated Paper / Coated Paper								
5555 Standard	Wax / Resin	Coated Paper / Matte Synthetics								
6100 Standard	Wax / Resin	Coated Paper / Matte Synthetics								
3200 High-Performance	Wax / Resin	Coated Paper / Matte Synthetics								
5586 Premium	Wax / Resin	Coated Paper / Matte Synthetics								
6200 Standard	Resin	Gloss Paper / Gloss Synthetics								
5095 High-Performance	Resin	Gloss Paper / Gloss Synthetics								
5100 Premium	Resin	Gloss Synthetics								
Image Lock™	Resin	Gloss / Matte Synthetics								

Adhesives

Adhesive	Description
Acrylic	General-purpose; provides long-term adhesion; resistance to chemicals and UV exposure; works across a wide temperature range
Rubber	General-purpose; provides good initial tack; offers adhesion to rough surfaces; not recommended for auto apply
High-Performance	Offers higher resistance to chemicals and UV exposure; often has agency approval such as indirect food contact (FDA 175.105), UL/cUL approval
High-Temp	Maintains strong adhesion at high temperatures (over 300°F / 149°C)
Cold-Temp	Maintains strong adhesion at low temperatures (down to -112°F / -80°C)
All-Temp	May be applied to temperatures below freezing (32°F / 0°C)
Removable	Clean removal from most surfaces without damaging the label or the surface
Ultra-Removable	Clean removal from nearly all surfaces, including metal and glass, without damaging the label or the surface
Multi-Removable	Offers dual functionality; provides permanent long-term adhesion but also allows for clean removal; repositionable to allow for removal, adjustment, and reapplication
High-Tack Acrylic	Works well on hard-to-label surfaces and provides good resistance to chemicals and UV exposure
High-Tack Rubber	Works very well on hard-to-label surfaces; provides good initial tack
Wet Tack	Offers good adhesion on wet surfaces

All adhesives above are permanent unless stated otherwise.

UL/cUL-Recognized Labeling System

Zebra offers one of the largest selections of UL/cUL-certified label and ribbon combinations. In addition, all of our locations are authorized to pre-print the UL mark.

Product	Material	Ribbon	Recognition
Z-Supreme 2000T White	Polymide	5100, 6200	UL/cUL indoor
Z-Supreme 3000T White	Polymide	3200, 5100	UL indoor
Z-Supreme 4000T White	Polymide	5095, 5100, 6200	UL Indoor
Z-Ultimate 4000T White	Polyester	5095, 5100, 6200	UL/cUL indoor / outdoor
Z-Ultimate 4000T Silver	Polyester	5095, 5100, 6200	UL/cUL indoor / outdoor
Z-Ultimate 4000T Removable	Polyester	5095, 5100	UL/cUL indoor
Z-Ultimate 4000T High-Tack	Polyester	5095, 5100	UL/cUL indoor / outdoor
Z-Ultimate 3000T White	Polyester	5095, 5100	UL/cUL indoor / outdoor
Z-Ultimate 3000T Silver	Polyester	5095, 5100	UL/cUL indoor / outdoor
Z-Ultimate 2000T White	Polyester	5095, 5100,	UL indoor
Z-Xtreme 4000T White	Polyester	5319, 3200, 5586, 5555, 5095, 5100, 6100, 6200	UL/cUL indoor / outdoor
Z-Xtreme 5000T White	Polyester	Image Lock	UL/cUL indoor / outdoor
Z-Xtreme 4000T Silver	Polyester	5319, 3200, 5586, 5555, 5095, 5100, 6100, 6200	UL/cUL indoor / outdoor
Z-Xtreme 4000T High-Tack White	Polyester	5319, 3200, 5586, 5555, 5095, 5100, 6100, 6200	UL/cUL indoor / outdoor
Z-Xtreme 4000T High-Tack Silver	Polyester	5319, 3200, 5586, 5555, 5095, 5100, 6100, 6200	UL/cUL indoor / outdoor
Z-Xtreme 2000T White	Polyester	3200, 5586, 5555, 5095	UL indoor
Z-Xtreme 2000T Silver	Polyester	3200, 5586, 5555, 5095, 6200	UL/cUL indoor
Z-Xtreme 2000T Clear	Polyester	3200, 5586, 5555, 5095	UL Indoor
8000T Void Matte	Polyester	5586, 5555, 5095	UL Indoor

Many Zebra printing systems are recognized by Underwriters Laboratory (UL/cUL) for printing indoor- and outdoor-use labels. These media/ribbon combinations include the above. If your application requires a UL/cUL-recognized labeling system, please consult with your Zebra account executive to determine which printer models can be used with these UL/cUL label/ribbon combinations.

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Sustainability

Printing with the Planet in Mind

Zebra's environmental, social, and governance strategy focuses on reducing emissions and environmental impacts, as well as those of its partners and suppliers. Zebra also makes it easier for you to prioritize sustainability in buying decisions.

The strategy focuses on cutting emissions in manufacturing. Extending the usable life of products. Making it easier to encourage product reuse with interchangeable designs. Minimizing packaging. And improving product design to make things easier to recycle and reduce waste, as evidenced by Zebra ZeroLiner Linerless supplies.

Lead with Linerless

Sustainable: The liner for labels typically ends up in a landfill. Linerless printing removes this waste and the manufacturing journey of our ZeroLiner labels is significantly shorter, resulting in overall CO2 savings through less transport and manufacturing.

Cost Savings: Linerless rolls contain up to 50% more labels, saving on supplies.

Productivity Gains: There's no need to manually peel liners. In high volume print environments, this micro-efficiency adds up to huge gains. Also, you'll need to change rolls less so productivity is enhanced.

Safety: Discarded piles of liner cause trip hazards. There's no such waste with linerless labels.

Labels – Paper

Product Name	TT* DT*	Product Description	Applications	Minimum Application Temperature	Service Temperature
Z-Essentials					
500D	DT	Uncoated paper label with permanent acrylic adhesive. Not recommended for outdoor use	It is ideal for high-volume applications in shipping, food labeling, work-in-process labeling, and other short-life applications	40°F 4°C	-40°F to 140°F -40°C to 60°C
540D	DT	Uncoated facestock, hotmelt rubber adhesive. Not recommended for outdoor use	It is ideal for high-volume applications in shipping, food labeling, work-in-process labeling, and other short-life applications	32°F 0°C	-40° F to 140° F -40° C to 60° C
1500D	DT	Top-coated paper label with permanent acrylic adhesive	Shipping, food labeling, work-in-process labeling, and other short-life high-volume applications.	40°F 4°C	-40°F to 130°F -40°C to 54°C
Z-Perform		Bright white, smooth paper facestock that provides the optimal balance between performance and price for industrial applications. Recommended for indoor use.			
1000D	DT	Uncoated paper label with a permanent acrylic adhesive; limited resistance to moisture or abrasion; not recommended for high print speed applications	Indoor, general-purpose labeling; warehouse, distribution, bakery application, and address labeling	25°F -4°C	-40°F to 140°F -40°C to 60°C
1500T	TT	Paper label with a permanent acrylic adhesive; meets FDA 174.105 indirect food contact requirements	Labeling of packaging material including corrugate, plastic, and metal; work in process	25°F -4°C	0°F to 180°F -18°C to 82°C
2000T	TT	Paper label with a permanent acrylic adhesive; meets FDA 175.105 indirect food contact requirements	Labeling of packaging material including corrugate, plastic, and metal; work in process	30°F -1°C	-65°F to 200°F -54°C to 93°C
2000 All-Temp	TT	Paper label with a permanent all-temp acrylic adhesive that allows the label to be applied to cold surfaces	Labeling of packaging material including corrugate, plastic and metal; ideal for identifying products in cold storage	-20°F -29°C	-65°F to 200°F -54°C to 93°C
2000D	DT	Paper label with an all-temp acrylic adhesive	Packaging and compliance labeling; indoor labeling applications	-40°F -40°C	-65°F to 131°F -54°C to 55°C
Z-Select		Premium, bright white, ultra-smooth paper facestock specially coated to provide optimal quality. Ideal for high-speed printing applications where print quality is important. Recommended for indoor use.			
4000T	TT	Paper label with permanent acrylic adhesive that may be used across a wide temperature range; meets FDA 175.105 indirect food contact requirements	Labeling of packaging material including corrugate, plastic, and metal; product identification, compliance labeling, work in process	25°F -4°C	-65°F to 200°F -54°C to 93°C
4000T All-Temp	TT	Paper label with a permanent all-temp acrylic adhesive that allows the label to be applied to surfaces as cold as -20°F / -29°C	Labeling of packaging material including corrugate, plastic, and metal; ideal for identifying products in cold storage or refrigerated warehouses	-20°F -29°C	-65°F to 200°F -54°C to 93°C
4000T Removable	TT	Paper label with a removable acrylic adhesive for applications requiring clean removability without damaging the label or the surface; meets FDA 175.105	Product identification; labeling of shelves, bins, or totes intended for reuse when labels are removed	40°F 4°C	-65°F to 180°F -54°C to 82°C
4000D	DT	Paper label with a permanent all-temp acrylic adhesive that allows the label to be applied to surfaces as cold as -20°F / -29°C; meets FDA 175.105 indirect food contact requirements	Labeling of most packaging materials; document tracking; cold-temp applications; IV bag labeling	-20°F -29°C	-65°F to 140°F -54°C to 60°C
4000D Removable	DT	Paper label with a removable acrylic adhesive for applications requiring clean removability without damaging the label or the surface; meets FDA 175.105	General-purpose product and food labeling; removable shelf labeling	40°F 4°C	-65°F to 140°F -54°C to 60°C
IQ Color		Bright white, smooth paper facestock that has the ability to print vibrant color on demand in pre-defined zones to be used as a visual cue.			
Zebra Exclusive 2000D	DT	Paper label with a permanent acrylic adhesive. Limited resistance to moisture or abrasion.	Healthcare for prioritization of lab and pharmacy orders. Transportation and logistics for sortation and inventory management. Manufacturing for quality control and work in process. Retail for shelf and product labeling.	25°F -4°C	-65° to 120°F -54° to 40°C
Zebra Exclusive 2000D All-Temp	DT	Paper label with a permanent all-temp acrylic adhesive. Limited resistance to moisture or abrasion.	Cold temp. applications such as frozen food labeling. Retail for shelf and product labeling. Healthcare for prioritization of lab and pharmacy orders.	-20°F -29°C	-65°F to 120°F -54°C to 49°C
Zebra Exclusive 2000D Removable	DT	Paper label with a removable acrylic adhesive. Limited resistance to moisture or abrasion.	Transportation and logistics for sortation and inventory management. Manufacturing for quality control and work in process. Retail for shelf and product labeling.	40°F 4°C	-65° to 120°F -54° to 40°C
Zebra Exclusive 2000D Opaque	DT	Opaque paper label with a high performance, acrylic-based adhesive. Limited resistance to moisture or abrasion.	Applications requiring a "cover-up" label. Transportation and logistics for sortation and inventory management. Manufacturing for quality control and work in process. Retail for shelf and product labeling.	40°F 4°C	-65°F to 120°F -54°C to 49°C

*TT Thermal Transfer DT Direct Thermal

Surfaces to be Labeled								Environment		Resistance							Suggested Ribbons	
Corrugate	Paper	Packaging Films	Most Plastics	Metal and Glass	Rough Surfaces	Curved Surfaces	Moist	Indoors	Outdoors	Moisture	Abrasion	Chemical – Weak (ie. Window Cleaner)	Chemical – Moderate (ie. Alcohol, Bleach)	Chemical – Harsh (ie. Gasoline,	Chemical – Extreme (ie. Acetone,	Standard Application – Weak and Moderate	High Durability – Abrasion, Harsh and Extreme
●	●	●	●	●	NR	NR	NR	●	NR	NR	NR	NR	NR	NR	NR	N/A	N/A
●	●	●	●	●	NR	NR	NR	●	NR	NR	NR	NR	NR	NR	NR	N/A	N/A
●	●	●	●	●	●	●	●	●	NR	●	●	NR	NR	NR	NR	N/A	N/A
●	●	●	●	●	●	●	●	●	NR	NR	●	NR	NR	NR	NR	N/A	N/A
●	●	●	●	●	●	●	●	●	NR	●	●	●	NR	NR	NR	1600, 6000	6100
●	●	●	●	●	●	●	●	●	NR	●	●	●	NR	NR	NR	1600, 6000	6100
●	●	●	●	●	●	●	●	●	NR	●	●	●	NR	NR	NR	1600, 6000	6100
●	●	●	●	●	●	●	●	●	NR	●	●	●	NR	NR	NR	N/A	N/A
●	●	●	●	●	NR	NR	NR	●	NR	●	●	●	NR	NR	NR	N/A	N/A
●	●	●	●	●	●	●	●	●	NR	NR	●	NR	NR	NR	NR	N/A	N/A
●	●	●	●	●	●	●	●	●	NR	NR	●	NR	NR	NR	NR	N/A	N/A
●	●	●	●	●	NR	NR	NR	●	NR	NR	●	NR	NR	NR	NR	N/A	N/A
●	●	●	●	●	●	●	●	●	NR	NR	●	NR	NR	NR	NR	N/A	N/A

● Recommended ● Test In Your Application NR Not Recommended

Labels – Paper (continued)

Product Name	TT* DT*	Product Description	Applications	Minimum Application Temperature	Service Temperature
Specialty		White paper labels and tags designed for unique or challenging applications. Recommended for indoor use.			
8000D Dissolvable	DT	Specialty acrylic adhesive that loses its structure, dissolving in water and removing cleanly from the surface, while the facestock disperses into tiny fibers	It is ideal for labeling reusable containers, Quick Service Restaurants and food traceability	21°F -6°C	-40°F to 160°F -40°C to 71°C
8000T High-Tack	TT	Paper label with a permanent rubber adhesive that provides high initial tack; meets FDA 175.105 indirect food contact requirements	Labeling of corrugate and recycled corrugate; shipping labels	40°F 4°C	-65°F to 160°F -54°C to 71°C
8000T Super-Tack	TT	Paper label with a Hammerlock® permanent rubber adhesive that provides best initial and long-term adhesion	Difficult surfaces such as wood and textured substrates	30°F -1°C	-65°F to 150°F -54°C to 66°C
8000T Multi-Removable	TT	Paper label with a multi-removable adhesive that offers dual functionality; provides permanent adhesion to corrugate surfaces but also allows clean removal from glass surfaces; repositionable	Labeling cartons, totes, and bins; promotional and shelf labels; allows frequent application and removal of label	25°F -4°C	-20°F to 200°F -29°C to 93°C
8000T Ultra-Removable	TT	Paper label with an ultra-removable acrylic adhesive that provides long-term clean removability	Removable shelf or scan pallet labels; removable document labels	20°F -7°C	-40°F to 160°F -40°C to 71°C
8000T Opaque	TT	Opaque paper label with a permanent acrylic adhesive; meets FDA 175.105 indirect food contact requirements	Applications requiring a “cover-up” label; product ID; chemical containers	20°F -29°C	-65°F to 200°F -54°C to 93°C
8000T Piggyback	TT	Piggyback paper label with a permanent acrylic adhesive that allows for removing the label, leaving the liner, and re-applying the second liner to a final application	Labeling of packaging materials; order picking; work in process	25°F -4°C	-65°F to 200°F -54°C to 93°C
8000T Semi-Gloss	TT	Semi-gloss paper label with a permanent rubber adhesive; meets FDA 175.105 indirect food contact requirements	Product identification; diskette labeling; high-volume applications	25°F -4°C	-65°F to 160°F -54°C to 71°C
8000T High-Gloss	TT	High-gloss paper label with permanent acrylic adhesive	High-gloss retail and consumer goods package labels; color preprinted labels	25°F -4°C	-65°F to 200°F -54°C to 93°C
8000T Lab	TT	Paper label with a permanent acrylic adhesive specifically designed to adhere to small, curved surfaces	In hospitals, laboratories and pharmacies on curved surfaces, such as vials, test tubes and syringes	25°F -4°C	-75°F to 200°F -59°C to 93°C
8000D Lab	DT	Paper label with a permanent acrylic adhesive specifically designed to adhere to small, curved surfaces	In hospitals, laboratories and pharmacies on curved surfaces, such as vials, test tubes and syringes	25°F -4°C	-75°F to 120°F -59°C to 49°C
8000D Near IR	DT	Paper label with a permanent acrylic adhesive; scannable in both visible and near infrared wavelength; meets FDA 175.105 indirect food contract requirements	Shipping applications; indoor, general-purpose labeling; meets requirements of package delivery industry	25°F -4°C	-40°F to 140°F -40°C to 60°C
8000D High-Temp	DT	Paper label with high-performance permanent acrylic adhesive that provides temperature resistance up to 194°F / 90°C; offers superior durability under fluorescent bulbs and partial UV exposure (through window)	Hot food labeling such as pizza and coffee; direct store delivery; archival use and short-term outdoor use	-40°F -40°C	-40°F to 194°F -40°C to 90°C
ZeroLiner Linerless Media					
Sustainable 1000D	DT	Linerless paper label with permanent rubber adhesive; eliminates liner waste. Smooth white silicone topcoated paper	Indoor, general purpose labeling; work in progress labeling, product and price labeling, applications that do not allow the use of a liner	47°F 8°C	14°F to 158°F -10°C to 70°C
Sustainable 2000D	DT	Linerless paper label with permanent rubber adhesive and a gloss finish; eliminates liner waste. Smooth white silicone topcoated paper	Indoor, general purpose labeling; work in progress labeling, product and price labeling, applications that do not allow the use of a liner	50°F 10°C	14°F to 140°F -10°C to 60°C
Sustainable 4500D	DT	Linerless paper label with permanent rubber adhesive and a gloss finish; eliminates liner waste. Smooth white silicone topcoated paper	Indoor, designed for high volume and challenging print environments; general purpose labeling; work in progress labeling, product and price labeling,	41°F 5°C	14°F to 212°F -10°C to 100°C

*TT Thermal Transfer DT Direct Thermal

Surfaces to be Labeled								Environment		Resistance						Suggested Ribbons	
Corrugate	Paper	Packaging Films	Most Plastics	Metal and glass	Rough Surfaces	Curved Surfaces	Moist Surfaces	Indoors	Outdoors	Moisture	Abrasion	Chemical — Weak (ie. Window Cleaner)	Chemical — Moderate (ie. Alcohol, Bleach)	Chemical — Harsh (ie. Gasoline, Oil)	Chemical — Extreme (ie. Acetone, Xylene)	Standard Application — Weak and Moderate Chemicals	High Durability — Abrasion, Harsh and Extreme Chemicals
●	●	●	●	●	NR	NR	NR	●	NR	NR	NR	NR	NR	NR	NR	N/A	N/A
●	●	●	●	●	●	●	●	●	NR	●	●	●	NR	NR	NR	6000, 2000	6100
●	●	●	●	●	●	●	●	●	NR	●	●	●	NR	NR	NR	6000, 2000	6100
●	●	●	●	●	NR	●	●	●	NR	●	●	●	NR	NR	NR	6000, 2000	N/A
●	●	●	●	●	NR	NR	NR	●	NR	●	●	●	NR	NR	NR	6000, 2000	6100
●	●	●	●	●	●	●	●	●	NR	●	●	●	NR	NR	NR	6000, 2000	6100
●	●	●	●	●	●	●	●	●	NR	●	●	●	NR	NR	NR	6000, 2000	6100
●	●	●	●	●	●	●	●	●	NR	●	●	●	●	NR	NR	5586, 6200	5095
●	●	●	●	●	●	●	●	●	NR	●	●	●	NR	NR	NR	6000	3200, 6100
●	●	●	●	●	●	●	●	●	NR	●	●	●	NR	NR	NR	N/A	N/A
●	●	●	●	●	●	●	●	●	NR	●	●	●	NR	NR	NR	N/A	N/A
●	●	●	●	●	●	●	●	●	NR	●	●	●	NR	NR	NR	N/A	N/A
●	●	●	●	●	●	●	●	●	NR	●	●	●	NR	NR	NR	N/A	N/A
●	●	●	●	●	●	●	●	●	NR	●	●	●	NR	NR	NR	N/A	N/A
●	●	●	●	●	●	●	●	●	NR	●	●	●	NR	NR	NR	N/A	N/A

● Recommended ● Test In Your Application NR Not Recommended

Labels – Synthetic

Product Name	TT* DT*	Product Description	Applications	Minimum Application Temperature	Service Temperature	Surfaces to be Labeled: Corrugate	Paper	Packaging Films	Most Plastics	Metal and Glass	Rough Surfaces	Curved Surfaces	Moist Surfaces	Environment: Indoors	Outdoors	Resistance: Moisture	Abrasion	Chemical – Weak (ie. Window Cleaner)	Chemical – Moderate (ie. Alcohol, Bleach)	Chemical – Harsh (ie. Gasoline, Oil)	Chemical – Extreme (ie. Acetone, Xylene)	Suggested Ribbons: Standard Application – Weak and Moderate Chemicals	High Durability – Abrasion, Harsh and Extreme Chemicals
PolyO		White, corona-treated polyolefin facestock that provides flexibility for labeling curved or rough surfaces; minimal resistance to scratching and smearing. Recommended for applications that require up to 6 months outdoors; temperature exposure up to 200°F / 93°C.																					
3000T	TT	Highly flexible corona-treated polyolefin label with an alltemp permanent acrylic adhesive that provides high initial tack designed exclusively for industrial labeling applications	Chemical drum labeling; product labeling; retail applications; recyclable shrink wrap applications; labeling harness configurations	25°F -4°C	-40°F to 200°F -40°C to 93°C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	NR	NR	6100, 3200	6200
4000T	TT	Semi-rigid corona-treated polyolefin label with an all-temp permanent acrylic adhesive that provides high initial tack and cold-temperature properties; meets FDA 175.105 indirect food contact requirements	Chemical drum labels; medical and pharmaceutical labeling; cold-temperature storage	10°F -12°C	-40°F to 176°F -40°C to 80°C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	NR	NR	5586	6200
PolyPro		White polypropylene facestock that provides high print quality and resistance to scratching and smearing; offers some flexibility for labeling curved surfaces. Thermal transfer materials recommended for applications that require up to 1-2 years outdoors; temperature exposure up to 250°F / 121°C.																					
2000T Gloss	TT	White gloss polypropylene label with permanent acrylic adhesive. Cost-efficient label that offers durability and chemical resistance	This label complies with FDA 175.105 for indirect food contact requirements. Given its low service and application temperatures, it's highly suitable for cold chain food processing applications. Product Identification, asset tracking, labeling packages in cold environment, agriculture	23°F -5°C	-40°F to 248°F -40°C to 120°C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	6200	6200
3000T Gloss	TT	Gloss polypropylene label with a permanent acrylic adhesive; meets FDA 175.105 indirect food contact requirements	Chemical drum, test tube or indirect food labeling; capital asset labeling; labeling small curved or irregularly shaped products; labeling packages in cold storage	23°F -5°C	-20°F to 212°F -29°C to 100°C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	N/A	6200
3000T Removable	TT	Matte polypropylene label with a removable adhesive; provides good resistance	Product identification; Automotive labeling	50°F 10°C	-40°F to 302°F -40°C to 150°C	●	●	●	●	●	●	NR	●	●	●	●	●	●	●	●	NR	N/A	5095
3000T Gloss Removable	TT	thermal transfer, gloss polypropylene label with a permanent rubber adhesive	Oil change, preventative maintenance and service; temporary parking stickers	32°F 0°C	-40°F to 180°F -40°C to 82°C	●	●	●	●	●	●	NR	NR	●	●	●	NR	●	●	●	●	N/A	5095
3000T	TT	Matte polypropylene label with a permanent acrylic adhesive; meets FDA 175.105 indirect food contact requirements	Chemical drum, test tube, or indirect food labeling; capital asset labeling; labeling small curved or irregularly shaped products; labeling packages in cold storage	45°F 7°C	-65°F to 200°F -54°C to 93°C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	6100, 3200	6200
3000T High-Tack	TT	Matte polypropylene label with a high-tack permanent acrylic adhesive	Chemical drum, medical device, or indirect food labeling; capital asset labeling; labeling small curved or irregularly shaped products; hard-to-label surfaces	32°F 0°C	-75°F to 200°F -59°C to 93°C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	6100, 3200	6200
4000T	TT	Matte Kimdura® polypropylene label with a permanent acrylic adhesive; meets FDA 175.105 indirect food contact requirements	Chemical drum, medical device, or indirect food labeling, capital asset labeling; labeling small curved or irregularly shaped products; UID compliance	10°F -12°C	-40°F to 250°F -40°C to 121°C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	6100	3200
4000T High-Tack	TT	Matte Kimdura polypropylene label with a high-tack acrylic permanent adhesive; meets FDA 175.105 indirect food contact requirements	Chemical drum, medical device, or indirect food labeling; capital asset labeling; labeling small curved or irregularly shaped products; hard-to-label surfaces	35°F 2°C	-65°F to 200°F -54°C to 93°C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	5555, 6100	5586
4000T Removable	TT	Matte Kimdura polypropylene label with a removable acrylic adhesive; provides good resistance to common industrial cleaning solutions	Removable shelf, bin, furniture, or product labeling	45°F 7°C	0°F to 160°F -18°C to 71°C	●	●	●	●	●	NR	NR	NR	●	●	●	●	●	●	●	●	6100	3200
4000D	DT	Matte polypropylene label with an all-temp permanent acrylic adhesive that allows label to be applied to surfaces as cold as -40°F / 40°C, meets FDA 175.105 indirect food contact requirements	Indoor, general-purpose labeling; houseware goods labeling; cold storage; provides good resistance to common industrial cleaning solutions	-40°F -40°C	-65°F to 131°F -54°C to 55°C	●	●	●	●	●	●	●	NR	●	NR	●	●	●	NR	NR	NR	N/A	N/A
4000D Removable	DT	Matte polypropylene label with a removable acrylic adhesive; meets FDA 175.105 indirect food contact requirements	Indoor, removable, general-purpose labeling; labeling Tupperware® containers; shelf labeling	10°F -12°C	-20°F to 120°F -29°C to 49°C	●	●	●	●	●	NR	NR	NR	●	NR	●	●	●	NR	NR	NR	N/A	N/A

*TT Thermal Transfer DT Direct Thermal

● Recommended ● Test In Your Application NR Not Recommended

Labels – Synthetic (continued)

Product Name	TT* DT*	Product Description	Applications	Minimum Application Temperature	Service Temperature	Surfaces to be Labeled: Corrugate	Paper	Packaging Films	Most Plastics	Metal and Glass	Rough Surfaces	Curved Surfaces	Moist Surfaces	Environment: Indoors	Outdoors	Resistance: Moisture	Abrasion	Chemical — Weak (ie. Window Cleaner)	Chemical — Moderate (ie. Alcohol, Bleach)	Chemical — Harsh (ie. Gasoline, Oil)	Chemical — Extreme (ie. Acetone, Xylene)	Suggested Ribbons: Standard Application — Weak and Moderate Chemicals	High Durability — Abrasion, Harsh and Extreme Chemicals
Z-Xtreme		White, matte polyester facestock that provides outstanding print quality and good smear and scratch resistance. Offers excellent resistance to chemicals. Recommended for applications that require up to 2 years outdoors; temperature exposure up to 300°F / 149°C.																					
2000T	TT	Matte polyester label with a permanent acrylic adhesive; UL/cUL acceptances; provides moderate chemical resistance; also available in silver and clear	UL/cUL compliance product labeling; asset labeling; serial plate labeling	50°F 10°C	-40°F to 302°F -40°C to 150°C	●	●	●	●	●	●	NR	●	●	●	●	●	●	●	NR	NR	6100, 3200	5095, 6200
2000T Removable	TT	Matte polyester label with a removable acrylic adhesive; provides moderate chemical resistance	Removable shelf or bin labels; provides good resistance to common industrial cleaning solutions	50°F 10°C	-40°F to 302°F -40°C to 150°C	●	●	●	●	●	NR	NR	●	●	●	●	●	●	●	NR	NR	6100, 3200	5095, 6200
4000T	TT	Matte polyester label with a high-performance acrylic adhesive; UL/cUL acceptances; provides harsh-chemical resistance; also available in silver	UL/cUL product labeling; asset labeling; automotive labeling, particular around battery use; medical device labeling; serial plate labeling	50°F 10°C	-40°F to 300°F -40°C to 149°C	●	●	●	●	●	●	NR	●	●	●	●	●	●	●	●	●	6100, 3200	6200
4000T High-Tack	TT	Matte polyester label with a high-tack permanent rubber adhesive; UL/cUL acceptances; provides harsh-chemical resistance; also available in silver	UL/cUL compliance product labeling; medical device labeling; asset labeling; automotive labeling; serial plate labeling; hard-to-label surfaces	50°F 10°C	-40°F to 300°F -40°C to 149°C	●	●	●	●	●	●	NR	●	●	●	●	●	●	●	●	NR	6100, 3200	6200
5000T	TT	Matte polyester label with a permanent acrylic adhesive; UL/cUL acceptances; provides the most extreme chemical resistance	UL/cUL compliance product labeling, asset labeling, automotive labeling, particularly around battery use; medical device labeling; serial plate labelings	50°F 10°C	-40°F to 300°F -40°C to 149°C	●	●	●	●	●	●	NR	●	●	●	●	●	●	●	●	●	Image Lock	Image Lock
Z-Ultimate		White, gloss polyester facestock that provides outstanding print quality and unparalleled smear and scratch resistance. Offers good resistance to chemicals. Recommended for applications that require up to 3 years outdoors; temperature exposure up to 300°F / 150°C.																					
2000T	TT	Polyester gloss label with a permanent acrylic adhesive; UL acceptance	Product labeling; top-side PCB labeling; asset labeling; automotive labeling; serial plate labeling; fanfolding applications	50°F 10°C	-40°F to 302°F -40°C to 150°C	●	●	●	●	●	NR	NR	NR	●	●	●	●	●	●	●	NR	6200	5100, 5095
2000T Color Stay	TT	Gloss polyester label with clear gloss polyester overlaminate and a high-performance permanent acrylic adhesive; overlaminate protects color floodcoat against color fade in UV light for up to 2 years	Application requires color to be durable outdoors for up to 2 years. Vending machines; utility meters; outdoor / tools / equipment	50°F 10°C	-40°F to 302°F -40°C to 150°C	●	●	●	●	●	NR	NR	NR	●	●	●	●	●	●	●	NR	6200	5100, 5095
3000T	TT	Gloss polyester label with a high-performance permanent acrylic adhesive; UL/cUL acceptances; also available in silver	UL/cUL compliance product labeling; top-side PCB labeling; asset labeling; automotive labeling; serial plate labeling	50°F 10°C	-40°F to 302°F -40°C to 150°C	●	●	●	●	●	●	NR	●	●	●	●	●	●	●	●	NR	6200	5100, 5095
4000T	TT	Gloss polyester label with a high-performance permanent acrylic adhesive; UL/cUL acceptances; also available in silver and clear	UL/cUL compliance product labeling; top-side PCB labeling; asset labeling; automotive labeling; serial plate labeling; UID compliance	50°F 10°C	-40°F to 302°F -40°C to 150°C	●	●	●	●	●	●	NR	●	●	●	●	●	●	●	●	NR	6200	5100, 5095
4000T High-Tack	TT	Gloss polyester label with a high-tack permanent acrylic adhesive; UL/cUL acceptances; also available in silver	UL/cUL compliance product labeling; asset labeling; automotive labeling; serial plate labeling; fanfolding applications; hard-to-label surfaces	50°F 10°C	-40°F to 302°F -40°C to 150°C	●	●	●	●	●	●	NR	●	●	●	●	●	●	●	●	NR	5095	5100, 5095
4000T Removable	TT	Gloss polyester label with a removable acrylic adhesive; UL/cUL acceptances	UL/cUL compliance product labeling; removable shelf or scan-pallet labels; labels in contact with moving parts or friction; fanfolding applications	50°F 10°C	-20°F to 302°F -29°C to 150°C	●	●	●	●	●	NR	NR	NR	●	●	●	●	●	●	●	NR	5095	5100, 5095
4000T Resist	TT	Gloss polyester label with a high-performance permanent acrylic adhesive. Meets automotive wire-harness durability requirements when using 6200 or Image Lock resin ribbons	Product identification; Automotive labeling	50°F 10°C	-40°F to 302°F -40°C to 150°C	●	●	●	●	●	●	NR	●	●	●	●	●	●	●	●	NR	6200	Image Lock, 5095

*TT Thermal Transfer DT Direct Thermal

● Recommended ● Test In Your Application NR Not Recommended

Labels – Synthetic (continued)

Product Name	TT* DT*	Product Description	Applications	Minimum Application Temperature	Service Temperature
Z-Supreme		White, polyimide facestock designed for high-temperature environments up to 500°F / 260°C. Recommended for printed circuit board (PCB) labeling.			
2000T	TT	White gloss polyimide label with a high-temp permanent acrylic adhesive that provides resistance to harsh environments; UL/cUL acceptances; available in 2 mil with paper or poly liner and 1 mil with paper or poly liner	Printed circuit board top- and bottom-side applications; auto-apply applications (poly liner); harsh environments including lead-free manufacturing processes; high-temp industrial applications	50°F 10°C	-40°F to 500°F -40°C to 260°C
3000T	TT	Matte polyimide label with a high-temp permanent acrylic adhesive that provides resistance to harsh environments; not recommended for processes using lead-free solder	Printed circuit board top- and bottom-side applications; harsh environments; high-temp industrial applications	50°F 10°C	-40°F to 482°F -40°C to 250°C
4000T	TT	Gloss polyimide label with a high-temp permanent acrylic adhesive that provides resistance to harsh environments; also available in yellow and green	Printed circuit board top- and bottom-side applications including lead-free manufacturing processes; harsh environments; high-temp industrial applications	50°F 10°C	-40°F to 500°F -40°C to 260°C
Z-Endure		Long-life acrylic facestock that provides excellent print quality and resistance to scratching and smearing. Recommended for applications requiring long-term outdoor use; temperature exposure up to 200˚F.			
3000T	TT	White acrylic film with a reflective glass bead coating and a high-performance permanent acrylic adhesive; excellent chemical and scratch resistance; provides outdoor durability of 7 years; also available in yellow, orange and red	Long-term outdoor safety warning labels; utility pole labeling; warning / instructional labels for heavy equipment; durable labels for ABS, aluminum and stainless steel surfaces that will be exposed outdoors for up to 7 years	50°F 10°C	-40°F to 176°F -40°C to 80°C
4000T	TT	White acrylic label with a permanent acrylic adhesive that offers 10-year outdoor durability	Vending machines, utility meters, signs, posts; outdoor tools / equipment that require extended exposure up to 10 years; UID compliance	50°F 10°C	-40°F to 212°F -40°C to 100°C
Specialty		White, synthetic labels designed for unique or challenging applications.			
8100T Image Lock	TT	Polypropylene barcode label with a durable, permanent acrylic adhesive	Designed specifically for challenging environments such as laboratories and manufacturing plants, this label provides print durability even when exposed to harsh chemicals. Its flexibility enables it to bend and stick to laboratory tubes, making it a versatile choice for different applications	50°F 10°C	-40°F to 212°F -40°C to 100°C
8000T Low-Temp Matte	TT	Matte polyolefin label with a cold-temp permanent acrylic adhesive that offers -112°F / -80°C performance for low-temperature use; provides resistance to repeated freeze and thaw cycles	Cold-temperature applications down to -112°F / -80°C; cold storage; virology labeling, genetics labeling, DNA sequencing; labeling vials, test tubes, ampules	50°F 10°C	-112°F to 200°F -80°C to 93°C
8000T CryoCool™	TT	Polypropylene label with a cold-temp permanent acrylic adhesive that offers extremely low-temperature performance down to -320°F / 196°C	Cryogenic applications involving a deep freezing process; medical labs, hospitals	-20°F -29°C	-320°F to 190°F -196°C to 88°C
8000T Low-Temp Gloss	TT	Gloss polypropylene label with a cold-temp permanent acrylic adhesive that offers -112°F / -80°C performance for low-temperature use; provides outdoor durability for 1-2 years; available in white	Cold-temperature applications down to -112°F / -80°C; cold storage; virology labeling, genetics labeling, DNA sequencing; steam sterilization	50°F 10°C	-112°F to 200°F -80°C to 93°C
8000T Primary Blood Bag	TT	Polypropylene label with an all-temp acrylic adhesive; compliant with FDA 175.105	Primary blood bag labeling; IV bag labeling	-10°F -29°C	-65°F to 200°F -54°C to 93°C
8000T Blood Bag	TT	Polypropylene label with a permanent acrylic adhesive	Secondary blood bag labeling. Should not be applied directly to blood bag	45°F 7°C	-40°F to 250°F -40°C to 120°C
8000T Jewelry	TT	Polypropylene label with a permanent acrylic adhesive; provides high print quality and smudge resistance; available in custom colors	Ideal for jewelry and ring labels; safe to use in jewelry steamers and cleaners	45°F 7°C	-40°F to 250°F -40°C to 121°C

*TT Thermal Transfer DT Direct Thermal

Surfaces to be Labeled								Environment		Resistance						Suggested Ribbons	
Corrugate	Paper	Packaging Films	Most Plastics	Metal and Glass	Rough Surfaces	Curved Surfaces	Moist Surfaces	Indoors	Outdoors	Moisture	Abrasion	Chemical — Weak (ie. Window Cleaner)	Chemical — Moderate (ie. Alcohol, Bleach)	Chemical — Harsh (ie. Gasoline, Oil)	Chemical — Extreme (ie. Acetone, Xylene)	Standard Application — Weak and Moderate Chemicals	High Durability — Abrasion, Harsh and Extreme Chemicals
NR	NR	NR	●	●	●	●	●	●	●	●	●	●	●	●	NR	N/A	5100
NR	NR	NR	●	●	●	●	●	●	●	●	●	●	●	●	NR	N/A	5100
NR	NR	NR	●	●	●	●	●	●	●	●	●	●	●	●	NR	N/A	5100
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	NR	6200	5100
●	●	●	●	●	●	NR	●	●	●	●	●	●	●	●	NR	6200	5100, 5095
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	N/A	Image Lock
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	NR	6100	3200
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	NR	6200	6200
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	NR	6200	5095
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	NR	6100	3200
●	●	NR	NR	●	●	●	●	●	●	●	●	●	●	●	NR	3200	5586
●	●	NR	NR	●	●	●	●	●	●	●	●	●	●	●	NR	6100	3200

● Recommended ● Test In Your Application NR Not Recommended

Labels – Synthetic (continued)

Product Name	TT* DT*	Product Description	Applications	Minimum Application Temperature	Service Temperature
Specialty		White, synthetic labels designed for unique or challenging applications.			
Z-Slip	DT	Direct thermal paper tag combined with a clear polypropylene label featuring a permanent acrylic adhesive	Packing slip, invoice and compliance labeling	23°F -5°C	-20°F to 131°F -29°C to 55°C
8000D Shelf Label	DT	Matte polypropylene label with an all-temp acrylic adhesive. Features a varnish that protects the images, allowing the 8000D Shelf Talker Clear to be placed over it and removed cleanly	Shelf label that withstands refrigeration and freezing	-20°F -29°C	-40°F to 150°F -40°C to 66°C
8000T GHS Laminate	TT	Thermal transfer white polypropylene label with a clear gloss polyester overlaminate and permanent acrylic adhesive. Overlaminate provides added durability for pre-printed red diamonds against abrasion and chemicals. BS 5609 Section 2 and 3 certified when paired with 5095 resin ribbon	Chemical drum labeling; GHS applications with pre-printed color, specifically those requiring BS 5609 Section 2 and 3 compliance	45°F 7°C	-65°F to 200°F -54°C to 93°C
8000T Slide	TT	Gloss polyester label with a permanent acrylic adhesive. Meets laboratory slide labeling and staining process requirements, including submersion in harsh chemicals, when paired with the Image Lock resin	Slide labeling	50°F 10°C	-40°F to 257°F -40°C to 125°C
8000T Ultra High-Tack Matte	TT	Matte polyester label with a high-tack permanent acrylic adhesive for difficult-to-label surfaces	Asset and machinery tracking; labeling textured surfaces, plastic, painted or bare metal and wood; UID compliance	50°F 10°C	-20°F to 302°F -29°C to 150°C
8000T RetroScan	TT	Silver gloss retro-flective polyester label with a permanent acrylic adhesive designed specifically for long-range scanning	Indoor warehouse bin / shelf / location labels for long-range scanning	45°F 7°C	-40°F to 300°F -40°C to 149°C
8000T ESD Gloss	TT	Gloss polyester electrostatic dissipative label with a high-temp permanent acrylic adhesive; meets ESD S11.11 Surface Resistance Test requirements	Applications requiring resistance to electrostatic discharge; circuit boards, disk drives, and other sensitive electronic components	50°F 10°C	-40°F to 302°F -40°C to 150°C
8000T Piggyback Clear Matte	TT	Piggyback matte polyester label with a permanent acrylic adhesive that can be over-laminated with a clear polyester liner	Asset management labeling; chemical containers; automotive labeling; UID compliance	50°F 10°C	-40°F to 302°F -40°C to 150°C
8000T Void Gloss	TT	White gloss polyester label with a tamper-proof adhesive that leaves a "void" pattern when label is removed	Serial number plates; warranty / authenticity label; tamper-evident security labels; capital asset labeling	50°F 10°C	-40°F to 158°F -40°C to 70°C
8000T Void Matte Silver	TT	Matte polyester label with a tamper-proof adhesive that leaves a "void" pattern when label is removed; UL acceptances	Serial number plates; warranty / authenticity label; tamper-evident security labels; capital asset labeling	50°F 10°C	-40°F to 104°F -40°C to 40°C
8000T Checkerboard Gloss Silver	TT	Silver gloss polyester label with a tamper-proof adhesive that leaves a checkerboard pattern when label is removed; maintains tamper evidence feature up to 176°F / 80°C	Security and product authentication applications such as cellular phones	50°F 10°C	-40°F to 176°F -40°C to 80°C

*TT Thermal Transfer DT Direct Thermal

Surfaces to be Labeled								Environment		Resistance						Suggested Ribbons	
Corrugate	Paper	Packaging Films	Most Plastics	Metal and Glass	Rough Surfaces	Curved Surfaces	Moist Surfaces	Indoors	Outdoors	Moisture	Abrasion	Chemical – Weak (ie. Window Cleaner)	Chemical – Moderate (ie. Alcohol, Bleach)	Chemical – Harsh (ie. Gasoline, Oil)	Chemical – Extreme (ie. Acetone, Xylene)	Standard Application – Weak and Moderate Chemicals	High Durability – Abrasion, Harsh and Extreme Chemicals
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	N/A	N/A
●	●	●	●	●	●	●	●	●	NR	●	●	●	NR	NR	NR	N/A	N/A
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	NR	5095	5095
●	●	●	●	●	●	NR	●	●	●	●	●	●	●	●	●	Image Lock	Image Lock
●	●	●	●	●	●	NR	●	●	●	●	●	●	●	●	NR	6100	5586, 3200
●	●	●	●	●	●	NR	●	●	●	●	●	●	●	●	NR	6200	5095
●	●	●	●	●	●	NR	●	●	●	●	●	●	●	●	NR	6200	5100
●	●	●	●	●	●	NR	●	●	●	●	●	●	●	●	●	6000, 2000	6100
NR	NR	●	●	●	●	NR	●	●	●	●	●	●	●	●	NR	6200	5095
NR	NR	●	●	●	●	NR	●	●	●	●	●	●	●	●	NR	6100	3200
NR	NR	●	●	●	●	NR	●	●	●	●	●	●	●	●	NR	N/A	5095, 5100

● Recommended ● Test In Your Application NR Not Recommended

Labels – Synthetic (continued)

Product Name	TT* DT*	Product Description	Applications	Minimum Application Temperature	Service Temperature
Specialty		White, synthetic labels designed for unique or challenging applications.			
8000T GHS Polyester	TT	Thermal transfer white matte polyester label with a permanent acrylic adhesive. Provides excellent chemical resistance. Adhesive system designed to bond well to painted steel, fiber and plastic drums. BS 5609 Section 2 and 3 certified when paired with 5095 resin ribbon and Red Resin ribbon.	Chemical drum labeling; GHS applications, specifically those requiring BS 5609 Section 2 and 3 compliance	10°F -12°C	-40°F to 302°F -40°C to 150°C
8000T GHS Vinyl	TT	Thermal transfer matte white vinyl label with a permanent acrylic adhesive. Offers exceptional flexibility for curved surfaces and excellent chemical resistance. Adhesive system designed to bond well to painted steel, fiber and plastic drums. BS 5609 Section 2 and 3 certified when paired with 5095 resin ribbon and Red Resin ribbon.	Chemical drum labeling; GHS applications, specifically those requiring BS 5609 Section 2 and 3 compliance	10°F -12°C	-40°F to 176°F -40°C to 80°C
8000T Z-Destruct™	TT	Vinyl label with a permanent acrylic adhesive that destructs when label is removed	Serialized data and warranty labels; applications requiring destructible solution; ideal for high-value electronics	50°F 10°C	-60°F to 250°F -51°C to 121°C
8000T Vinyl Clear	TT	Clear matte vinyl label with a permanent acrylic adhesive that is highly flexible	Wrap around wire labeling; wrap around vial or tube labeling	50°F 10°C	-40°F to 176°F -40°C to 80°C
8000T Vinyl Outlast	TT	White semi-gloss vinyl label with a permanent acrylic adhesive; offers excellent flexibility for curved surfaces; provides outdoor durability of 5 years and excellent UV resistance	Vial or tube labeling; warranty labeling; safety warning labels; outdoor piping requiring outdoor durability of up to 5 years	50°F 10°C	-40°F to 170°F -40°C to 77°C
8000D Wet Tack	DT	Matte direct thermal polypropylene with a permanent rubber adhesive	Wet surfaces	-10°F -23°C	-65°F to 150°F -54°C to 66°C
8000T Wet Tack	TT	Thermal transfer, gloss polypropylene label with a permanent rubber adhesive	Wet surfaces	-10°F -23°C	-65°F to 150°F -54°C to 66°C

*TT Thermal Transfer DT Direct Thermal

Surfaces to be Labeled								Environment		Resistance						Suggested Ribbons	
Corrugate	Paper	Packaging Films	Most Plastics	Metal and Glass	Rough Surfaces	Curved Surfaces	Moist Surfaces	Indoors	Outdoors	Moisture	Abrasion	Chemical – Weak (ie. Window Cleaner)	Chemical – Moderate (ie. Alcohol, Bleach)	Chemical – Harsh (ie. Gasoline, Oil)	Chemical – Extreme (ie. Acetone, Xylene)	Standard Application – Weak and Moderate Chemicals	High Durability – Abrasion, Harsh and Extreme Chemicals
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	NR	5095 and Red Resin	5095 and Red Resin
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	NR	5095 and Red Resin	5095 and Red Resin
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	NR	6100, 3200	6200
●	●	●	●	●	●	●	●	●	●	●	●	●	●	NR	NR	6100, 3200	6200
●	●	●	●	●	●	●	●	●	●	●	●	●	●	NR	NR	5555	6200
●	●	●	●	●	●	●	●	●	●	●	NR	●	NR	NR	NR	N/A	N/A
●	●	●	●	●	●	●	●	●	●	●	NR	●	●	NR	NR	6200	6200

● Recommended ● Test In Your Application NR Not Recommended

Tags – Paper

Product Name	TT* DT*	Product Description	Applications	Minimum Application Temperature	Service Temperature
Z-Perform		Bright white, smooth paper facestock that provides the optimal balance between performance and price for industrial applications. Recommended for indoor use.			
1000T Tag	TT	Uncoated paper tag available in 7.5 and 9.5 mil thickness	General-purpose ticketing; retail hang tags; inventory and shop floor tracking tickets	N/A	-50°F to 200°F -46°C to 93°C
1000D Tag	DT	Uncoated paper tag available in 5.3 mil thickness	General-purpose ticketing; retail hang tags; inventory and shop floor tracking tickets	N/A	-40°F to 140°F -40°C to 60°C
Z-Select		Premium, bright white, ultra-smooth paper facestock specially coated to provide optimal quality. Ideal for high-speed printing applications where print quality is important. Recommended for indoor use.			
4000T Tag	TT	Paper tag available in 5.0, 7.0, and 10.0 mil thickness	General-purpose ticketing; retail hang tags; inventory control and shop floor tracking tickets	N/A	-40°F to 200°F -40°C to 93°C
4000D Tag	DT	Paper tag available in 5.3 and 7.0 mil thickness	General-purpose ticketing; shop floor tracking tickets; retail hang tag	N/A	-40°F to 140°F -40°C to 60°C
IQ Color		Bright white, smooth paper facestock that has the ability to print vibrant color on demand in pre-defined zones to be used as a visual cue.			
2000D Tag	DT	Paper tag available in 7.0 mil thickness	General-purpose ticketing; retail hang-tags; inventory and shop floor tracking tickets	N/A	-40°F to 120°F -40°C to 49°C

Tags – Synthetic

Product Name	TT* DT*	Product Description	Applications	Minimum Application Temperature	Service Temperature
PolyPro		White, matte polypropylene facestock that provides high print quality and resistance to scratching and smearing; offers some flexibility for labeling curved surfaces. Thermal transfer materials recommended for applications that require up to 1-2 years outdoors; temperature exposure up to 250°F.			
4000T Tag	TT	Polypropylene tag available in 7.0 and 8.5 mil thickness	Outdoor, general purpose tagging; wire marking, visitor passes, bin tags, pallets	N/A	-40°F to 200°F -40°C to 93°C
Z-Ultimate		White, gloss polyester facestock that provides outstanding print quality and unparalleled smear and scratch resistance. Offers good resistance to chemicals. Recommended for applications that require up to 3 years outdoors; temperature exposure up to 300°F.			
4000T Tag	TT	Gloss polyester laminated tag available in 8 mil thickness	Tags requiring high environmental resistance; outdoor storage tags; water immersed tags, steel tags; high-quality hang tags	N/A	-40°F to 200°F -40°C to 93°C
Specialty		White, synthetic tags designed for unique or challenging applications.			
8000T Light-Weight Tag	TT	Tyvek® olefin tag that provides tear resistance and durability; lightweight; available in 8.0 mil thickness	Sewn-in tags, lawn tags, garment tags; seat belts; greenhouse and nursery tags; staple-on tags; outdoor storage	N/A	-40°F to 200°F -40°C to 93°C
8000T Tuff Tag	TT	V-Max® polyolefin tag that provides tear strength and outdoor use up to 1-2 years; available in 7.0 mil thickness	Nursery tags; lumber tags; outdoor storage tags	N/A	-70°F to 200°F -57°C to 93°C
8000T Ultra-Tuff Tag	TT	Valéron® polyethylene tag that provides the highest tear resistance and durability; available in 7.5 thickness	Nursery tags; lumber tags; construction applications; outdoor storage tags	N/A	-70°F to 200°F -57 C to 93°C
8000T Nylon Tag	TT	Woven nylon tag that may be sewn into clothing; provides outstanding print quality; available in 5.7 mil thickness	Seat belt tagging; care tag applications	N/A	-40°F to 302°F -40°C to 150°C

*TT Thermal Transfer DT Direct Thermal

Environment		Resistance						Suggested Ribbons	
Indoors	Outdoors	Moisture	Abrasion	Chemical — Weak (ie. Window Cleaner)	Chemical — Moderate (ie. Alcohol, Bleach)	Chemical — Harsh (ie. Gasoline, Oil)	Chemical — Extreme (ie. Acetone, Xylene)	Standard Application — Weak and Moderate Chemicals	High Durability — Abrasion, Harsh and Extreme Chemicals
●	NR	NR	●	●	NR	NR	NR	6000, 2000	6100
●	NR	NR	●	●	NR	NR	NR	N/A	N/A
●	NR	●	●	●	NR	NR	NR	6000, 2000	6100
●	NR	●	●	●	NR	NR	NR	N/A	N/A
●	NR	NR	●	NR	NR	NR	NR	N/A	N/A

Environment		Resistance						Suggested Ribbons	
Indoors	Outdoors	Moisture	Abrasion	Chemical — Weak (ie. Window Cleaner)	Chemical — Moderate (ie. Alcohol, Bleach)	Chemical — Harsh (ie. Gasoline, Oil)	Chemical — Extreme (ie. Acetone, Xylene)	Standard Application — Weak and Moderate Chemicals	High Durability — Abrasion, Harsh and Extreme Chemicals
●	●	●	●	●	●	●	●	6100	3200
●	●	●	●	●	●	●	NR	6200	5095, 5100
●	●	●	●	●	●	NR	NR	6000, 5319	6100
●	●	●	●	●	●	NR	NR	6100	3200
●	●	●	●	●	●	●	NR	6100	3200
●	●	●	●	●	●	●	NR	N/A	Nylon Ribbon

● Recommended ● Test In Your Application NR Not Recommended

Receipts – Paper

Product Name	TT* DT*	Product Description	Applications	Thickness (Mil)	Service Temperature
Z-Perform		Bright white, smooth paper facestock that provides the optimal balance between performance and price for industrial applications. Recommended for indoor use.			
1000D Receipt	DT	Premium receipt paper that offers excellent quality at a low cost	General purpose mobile workforce applications including route accounting and field service	2.4 or 3.5	-40°F to 140°F -40°C to 60°C
Z-Select		Premium, bright white, ultra-smooth paper facestock specially coated to provide optimal quality. Ideal for high-speed printing applications where print quality is important. Recommended for indoor use.			
4000D Receipt	DT	Receipt paper featuring a topcoat that allows for exceptional long-life durability and resistance	Mobile workforce applications including route accounting and field service	3.2	-40°F to 140°F -40°C to 60°C
4000T Receipt	TT	Receipt paper available in 3.0 mil thickness	Staple-on tickets; plastic bag inserts; packing lists	3.0	-40°F to 200°F -40°C to 93°C
IQ Color		Bright white, smooth paper facestock that has the ability to print vibrant color on demand in pre-defined zones to be used as a visual cue.			
2000D Receipt	DT	Receipt paper available in 3.3 mil thickness	Mobile workforce applications including route accounting and field service	3.3	-40°F to 120°F -40°C to 49°C
Specialty		White receipt paper designed for unique or challenging applications. Recommended for indoor use.			
8000D High-Temp Receipt	DT	Receipt paper that provides temperature resistance up to 194°F / 90°C; offers superior durability under fluorescent bulbs and partial UV exposure (through a window)	Mobile workforce applications that will be exposed to high temperature including e-citation	3.2	-40°F to 194°F -40°C to 90°C

*TT Thermal Transfer DT Direct Thermal

			Environment		Resistance						Suggested Ribbons	
Archivability**	Topcoated	Sensitivity	Indoors	Outdoors	Moisture	Abrasion	Chemical — Weak (ie. Window Cleaner)	Chemical — Moderate (ie. Alcohol, Bleach)	Chemical — Harsh (ie. Gasoline, Oil)	Chemical — Extreme (ie. Acetone, Xylene)	Standard Application — Weak and Moderate Chemicals	High Durability — Abrasion, Harsh and Extreme Chemicals
10 years	No	2.4 mil — Medium 3.5 mil — High	●	NR	NR	●	NR	NR	NR	NR	N/A	N/A
25 years	Yes	High	●	NR	●	●	●	NR	NR	NR	N/A	N/A
10 years	Yes	N/A	●	NR	●	●	●	NR	NR	NR	6000, 2000	6100
1 year	No	High	●	NR	NR	●	NR	NR	NR	NR	N/A	N/A
20 years	Yes	N/A	●	●	●	●	●	NR	NR	NR	N/A	N/A

**The thermal image will remain legible for the archival life provided the image is fully developed on the recommended thermal printer and the document is stored with compatible materials under proper storage conditions

● Recommended ● Test In Your Application NR Not Recommended

Wristbands – Synthetic

Product Name	TT* DT*	Product Description	Applications	Closure Type	Service Temperature	Indoors	Outdoors	Moisture	Abrasion	Chemical – Weak (ie. Window Cleaner)	Chemical – Moderate (ie. Alcohol, Bleach)	Chemical – Harsh (ie. Gasoline, Oil)	Chemical – Extreme (ie. Acetone, Xylene)	Standard Application – Weak and Moderate Chemicals	High Durability – Abrasion, Harsh and Extreme Chemicals
Z-Band®		Synthetic wristbands uniquely configured for optimal use in Zebra tabletop and desktop printers. Each material provides durability and security enhancements including security slits, void features, or clip closures.													
UltraSoft	DT	Soft, flexible polypropylene and vinyl wristband with an adhesive tab for securement and features an antimicrobial coating that protects the wristband from degradation; tamper-evident; color-coding options available; standard or bracelet design; latex free	Patient identification in healthcare facilities	Adhesive	-40°F to 140°F -40°C to 60°C	●	●	●	●	●	●	NR	NR	N/A	N/A
Direct	DT	Polypropylene wristband with an adhesive tab for securement; tamper-evident slits, color-coding options; latex free	Patient identification in healthcare facilities	Adhesive	-40°F to 140°F -40°C to 60°C	●	●	●	●	●	●	NR	NR	N/A	N/A
Soft Infant	DT	Polypropylene wristband delicate enough for fragile skin. Features an adhesive closure; latex free	Patient identification in healthcare facilities of infants with sensitive skin	Adhesive	-40°F to 140°F -40°C to 60°C	●	●	●	●	●	●	NR	NR	N/A	N/A
QuickClip™	DT	Polypropylene wristband with secure clip closure; color clips available; latex free	Patient identification in healthcare facilities	Clip	-40°F to 140°F -40°C to 60°C	●	●	●	●	●	●	NR	NR	N/A	N/A
Fusion	DT	Self-laminating polypropylene wristband with adhesive tab for securement; tamper-evident slits; lay flat design enables quick scanning	Patient identificatioin for long term needs in healthcare facilities	Adhesive	-40°F to 140°F -40°C to 60°C	●	●	●	●	●	●	NR	NR	N/A	N/A
4000	TT	Thermal transfer, white, gloss polyester wristband with a permanent acrylic adhesive; latex free	Patient identification in healthcare facilities	Adhesive	-20°F to 300°F -29°C to 149°C	●	●	●	●	●	●	●	NR	5095	5100
Fun	DT	Polypropylene wristband with an adhesive tab for securement. For one-day use and minimal water exposure in the recreation market	Guest identification, tracking and access control. Cashless point of sale for food and merchandise. Ideal for carnivals, amusement parks, fairs, festivals, theme parks, zoos, aquariums, sporting events, concerts and nightclubs	Adhesive	-40°F to 140°F -40°C to 60°C	●	●	●	●	●	●	NR	NR	N/A	N/A
Splash	DT	Polypropylene wristband with an adhesive tab for securement. For multi-day use and excessive water exposure in the recreation market	Guest identification, tracking and access control. Cashless point of sale for food and merchandise. Ideal for water parks, resorts and cruise lines.	Adhesive	-40°F to 140°F -40°C to 60°C	●	●	●	●	●	●	NR	NR	N/A	N/A

Wristbands – RFID

Product Name	TT* DT*	Product Description	Applications	Closure Type	RFID Technology Type	Indoors	Outdoors	Moisture	Abrasion	Chemical – Weak (ie. Window Cleaner)	Chemical – Moderate (ie. Alcohol, Bleach)	Chemical – Harsh (ie. Gasoline, Oil)	Chemical – Extreme (ie. Acetone, Xylene)	Standard Application – Weak and Moderate Chemicals	High Durability – Abrasion, Harsh and Extreme Chemicals
Z-Band®		Synthetic wristbands uniquely configured for optimal use in Zebra tabletop and desktop printers. Each material provides durability and security enhancements including security slits, void features, or clip closures.													
Direct RFID SR	DT	Durable and disposable direct thermal RFID Classic wristband with BT0600 inlay. Designed for applications where wristband is in close proximity to an RFID reader	Ideal for positive patient identification – including at the bedside through a blanket or during a surgery through the drape	Adhesive	UHF	●	●	●	●	●	●	NR	NR	N/A	N/A
UltraSoft RFID LR	DT	Soft, durable and disposable direct thermal RFID wristband with flag	Ideal for use when overhead readers or portals are being used to provide best last known location tracking abilities	Adhesive	UHF	●	●	●	●	●	●	NR	NR	N/A	N/A

*TT Thermal Transfer DT Direct Thermal

● Recommended ● Test In Your Application NR Not Recommended

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

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