

Application Brief

UL Labeling



At a glance

Industry

- Electronics
- Manufacturing

Products

- Duratran II Polyester
- TMX1000, 2000, 3000 series ribbons
- PM43
- PC43/PC23

Region – North America

Typical Applications

- Electrical and electronics labeling
- Appliance labeling
- Medical equipment labeling
- Serial number labeling
- Secondary packaging

Customer Benefits

- Streamlined UL listing of finished product with UL recognized label/ribbon combination
- Assured compliance with industry standards
- Durable, high contrast print for consistent scanning performance
- Reduced total cost of ownership with free printhead replacement program when Intermec media and fixed printers are used together
- On-demand generation of top quality printed labels
- Marking longevity with durable labels
- Labels in a range of colors and finishes to meet appearance signage guidelines
- Increased efficiency and productivity by printing at the point of activity
- Full range of media products to meet varied application requirements (basic, moderate, high durability)
- Stock media items available for quick shipment

Industry Need

UL labels, often called nameplates or markers, convey a great deal of information. They usually identify the finished item model number, serial number, and key safety details for operation. They also carry the UL mark, which indicates that the product has been evaluated by Underwriters Laboratories, found compliant with the applicable standards, and is subjected to regular inspection on an ongoing basis.

The nameplate label itself is also subject to both initial qualification standards and ongoing inspection. The important information it carries needs to remain legible and intact; therefore the label must survive the service conditions of the finished item and remain firmly attached for the life of the product. To assess label and print durability, UL has developed their 969 standard; labels, thermal ribbons, and preprinted inks must be UL recognized to this standard to be used as nameplates.

However, not all UL marked labels require this high level of durability. Packaging labels need to convey information only until the product is purchased and removed from its container. However, to ensure the UL mark is used only when appropriate (and thus retains its value as a certification), there are stringent requirements on label design; each design requires approval through the UL Label Center. These printed products may only be sourced from Authorized Label Providers who have gone through the UL program and participate in the follow-up program to ensure ongoing compliance.

Reference Links

UL page discussing labeling and use of the UL Marks:

<http://www.ul.com/global/eng/pages/corporate/aboutul/ulmarks/>

Intermec Solution

Intermec Duratran II gloss polyester labels paired with TMX3000 series ribbons provide the product set required for customers to print highly durable UL-recognized labels; a wide selection of common sizes are available for immediate shipment from inventory. Successfully tested from -40 to 302F for indoor or outdoor use, these rugged labels ensure end users will have access to key safety information for the life of the labeled product. To satisfy varying application requirements, multiple adhesives are available; to ensure appearance preferences are met, labels are available in white, silver, or clear as well as gloss or matte finish. For UL nameplate labels with a requirement for tamper evident features, voidable polyester labels are available.

Intermec's broad portfolio of UL recognized components for label printing meets the needs of most common applications, so implementation is generally quite simple. For more complicated projects, we periodically add materials to satisfy specific customer requirements, and are familiar with the processes required to secure UL recognition of new products.

As a UL Authorized Label Provider, Intermec can also provide printed labels carrying the UL mark for nameplate or secondary packaging applications. These labels are offered on a range of products tailored to durability and price requirements. The range of applicable materials depends largely on whether or not the label becomes a permanent part of the finished item and the applicable standard.

If you are not experienced in standards compliance, UL requirements can be confusing. Intermec can help you determine the correct products to streamline your path through the process.

Media Solutions for UL Labeling					Leading Stock Label Configurations		Leading Stock Ribbons	
Material	Durability	Service Temp. Range	Nameplate/Item Level ID (UL 969)	Secondary Packaging	Industrial Printers	Desktop Printers	Industrial Printers	Desktop Printers
Duratran II 2 mil gloss white polyester high tack, TMX3000 series resin ribbon	Best. Indoor or outdoor use. Superior print durability.	-40 to 302F	■		2x1" (E10164) 3x1" (E23068) 3x2" (E23069) 4x1" (E25732) 4x2" (E23222) or custom preprinted	2x1" (E22233) 3x1" (E25746) 4x2" (E25747)	2.09x18,036" (13632018, CSI) 2.99x18,036" (13633018, CSI) 4.09x18,036" (13634118, CSI)	2.36x3,588" (13631636, 1/2" core) 2.36x10,800" (13632111, 1" core) 3.1x3,588" (13633136, 1/2" core) 3.1x10,800" (13633111, 1" core) 4.33x3,588" (13044304, 1/2" core) 4.1x10,800" (13634012, 1" core)
Duratran II Kimdura labels/ TMX2000 series mid-range ribbon	Better. Indoor or outdoor use. Moderate print durability.	-65 to 200F		■	Custom preprint to be determined for each UL project		2.05x18,024" (12232018, CSI) 3.15x18,000" (12033118, CSI) 4.09x18,024" (1234118, CSI)	2.35x10,800" (12232311, 1" core) 2.5x3,588" (12042504, 1/2" core) 3.15x10,800" (12233111, 1" core) 3.27x3,588" (12043204, 1/2" core) 4.1x10,800" (12234012, 1" core) 4.33x3,588" (12044304, 1/2" core)
Duratran II paper labels/ TMX1000 series wax ribbon	Good. Indoor use. Basic print durability.	-65 to 200F		■	Custom preprint to be determined for each UL project		2.05x18,024" (11232018, CSI) 3.00x18,024" (11233018, CSI) 4.09x18,024" (11234118, CSI)	2.35x10,800" (11232211, 1" core) 3.1x10,800" (11233011, 1" core) 3.27x3,588" (11043304, 1/2" core) 4.1x10,800" (11234012, 1" core) 4.33x3,588" (11044304, 1/2" core)

Printer Recommendation

PM43 Mid Range Printer ([Product Profile](#))



Ready – Fastest to deploy. Seamlessly fits any environment.

- Large color multi-lingual tamper proof touch-screen or icon user interface
- No touch configuration capabilities
- Only CCX & WiFi certified fixed printers with standard IPv6 implementation

Reliable – Maximize uptime. Built from 40 years of printing innovations. 3rd generation platform.

- Precision Print for consistent bar code printing with pin point accuracy
- Multilingual Web page loaded on every printer ensures easy device monitoring
- Strong metal structure with metal door that can be locked for media protection

Perform – Increase productivity and process efficiencies.

- Fastest throughput in its class
- Powerful programmable capability with ability to directly connect peripherals
- Most connectivity options in the market

PC43t Desktop Printer ([Product Profile](#))



- Intuitive – Easiest to Install & Use
- Multi-language LCD or universal icon user interface
- Step-by-step installation wizard
- Flexible – Fits your business today & tomorrow
- Scalable connectivity & accessories
- Choice of placement options – wall or cart mountable
- Smart – Keeps you informed & productive
- Diagnostics through color display or icons
- User installed upgrades & accessories
- Remote management

The Intermec Advantage

When the label becomes a permanent part of your finished product, print quality, durability, and reliability of the printing system become essential. Intermec printers and media are optimized to deliver superior performance when used together. Our rigorous testing and co-engineering ensures consistently high print quality, proven label and tag performance in demanding real-world environments, and maximum print head service life for reduced downtime.

Intermec printers and media are complemented by the industry's only complete line of integrated solutions and services, including rugged mobile computers, RFID systems, and advanced scanning technology. Intermec products and services are used by customers worldwide to improve the productivity, quality and responsiveness of their business operations.

Printhead Replacement Program

Intermec will provide no cost replacement printheads, as failures occur due to normal wear and tear, to those customers who use Intermec Media Products exclusively with their Intermec direct thermal and thermal transfer fixed printers. For full details, click [here](#).

For more information

Contact Intermec for durable UL labels and assured compliance for your labeling project.

**North America
Corporate Headquarters**

6001 36th Avenue West
Everett, Washington 98203
Phone: (425) 348-2600
Fax: (425) 355-9551

**North Latin America
Headquarters Office**

Mexico
Phone: +52 55 52-41-48-00
Fax: +52 55 52-11-81-21

**South Latin America
Headquarters Office**

Brazil
Phone: +55 11 3711-6776
Fax: +55 11 5502-6780

**Europe/Middle East &
Africa Headquarters Office**

Reading, United Kingdom
Phone: +44 118 923 0800
Fax: +44 118 923 0801

**Asia Pacific
Headquarters Office**

Singapore
Phone: +65 6303 2100
Fax: +65 6303 2199

Internet

www.intermec.com
Worldwide Locations:
www.intermec.com/locations

Sales

Toll Free NA: (800) 934-3163
Toll in NA: (425) 348-2726
Freephone ROW:
00 800 4488 8844
Toll ROW: +44 134 435 0296

OEM Sales

Phone: (425) 348-2762

Media Sales

Phone: (513) 874-5882

**Customer Service
and Support**

Toll Free NA: (800) 755-5505
Toll in NA: (425) 356-1799



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