

RICOH DIRECT THERMAL FOOD PROCESSING APPLICATION

INDUSTRY LEADERS IN THERMAL IMAGE SOLUTIONS



Product Benefits

Direct thermal labels are well suited for the meat processing and packaging industry, producing high-quality prints with crisp, clear text and barcodes. Direct thermal labels offer the added benefits of high-speed printing, durability, environmental resistance, and affordability, streamlining production.



Industry Applications

- Meat Packaging & Processing
- Poultry Packaging and Processing
- Prepared foods

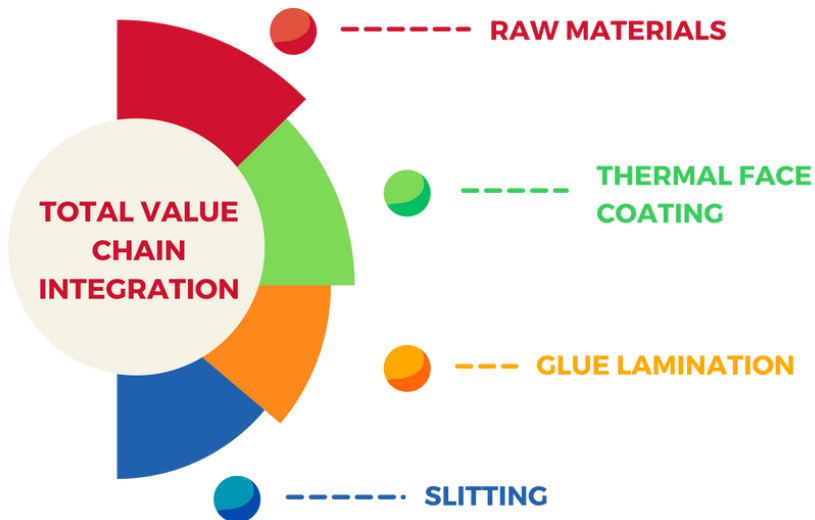


Suitability Specifics

In food processing applications, it is crucial to accurately deliver critical information such as product codes, batch numbers, barcodes, and expiration dates to guarantee product safety. Labels must withstand harsh environmental conditions like moisture, high temperatures, and fat. Ricoh Electronics Inc.'s range of products provides ideal, customized direct thermal labeling solutions that are resistant to smudging and fading.

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- Paper, film, and chemicals are sourced from raw material manufacturers
- Unlike our competitors, face coating is developed by our R&D team and manufactured on-site at Ricoh facilities
- DT face, adhesive, and liner undergo glue lamination process on-site, monitored for optimal quality control
- The master roll slitting process allows us to provide usable finished rolls for commercial printing companies, delivering end-to-end labeling solutions

Total Value Chain Integration

At Ricoh Electronics Inc., our in-house R&D team innovates custom solutions designed around the unique needs of our customers. Our *Total Value Chain Integration* sets us apart from competitors. From raw materials to finished rolls, we take pride in complete ownership of the manufacturing process, allowing for rigorous end-to-end quality control.

Direct Thermal - How It Prints

Direct Thermal printing produces an image by selectively heating thermal paper as it passes over the thermal print head. Specialized coating on the thermal paper turns black where heat has been applied, creating a high-quality and smudge-resistant image. Direct Thermal printing is ideal for fast-paced, on-demand use.

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Direct Thermal Product Solutions

Grade	Product	Performance Characteristics	Caliper
Paper Base	<u>N150LA-2</u>	<ul style="list-style-type: none"> • High sensitivity and excellent image resolution and barcode reliability • Premium top-coated DT paper • Highly resistant to heat • Ideal for high-speed printing 	3.0 mil (77µm)
Paper Base	<u>N140LA</u>	<ul style="list-style-type: none"> • High sensitivity and medium-high image resolution with excellent image preservation • Standard top-coated DT paper • Strong resistance to plasticizers 	3.2 mil (81µm)
Film Base	<u>140LES</u>	<ul style="list-style-type: none"> • High image sensitivity and preservation properties • Durable polypropylene direct thermal base film • Highly tear and water resistant • Ideal for multiple applications 	3.9 mil (99µm)
Film Base	<u>CDT-1 (PET)</u>	<ul style="list-style-type: none"> • High sensitivity and ideal for high-speed printing • Enhanced visibility of package components • Strong water resistance • Designed for food labeling applications 	2.1 mil (54µm)
Film Base	<u>140LDS</u>	<ul style="list-style-type: none"> • High image sensitivity and preservation properties • Durable polypropylene direct thermal base file • Highly tear and water resistant • Ideal for multiple applications 	2.3 mil (59µm)

Ricoh's labeling products lead the industry in quality and reliability. Contact your Ricoh sales representative to discuss custom solutions for your unique business needs. Scan the QR code to learn more about Ricoh's Meat Processing Direct Thermal products.

