

# RICOH DIRECT THERMAL COURIER APPLICATION

*INDUSTRY LEADERS IN THERMAL IMAGE SOLUTIONS*



## Product Benefits

Courier application labels need to be versatile. They must preserve scannability and maintain adhesion from the warehouse to end destinations. Ricoh offers a wide range of courier-suitable options, allowing for custom solutions tailored to specific business and environmental needs.



## Industry Applications

- Shipping Labels
- Shipping Documentation

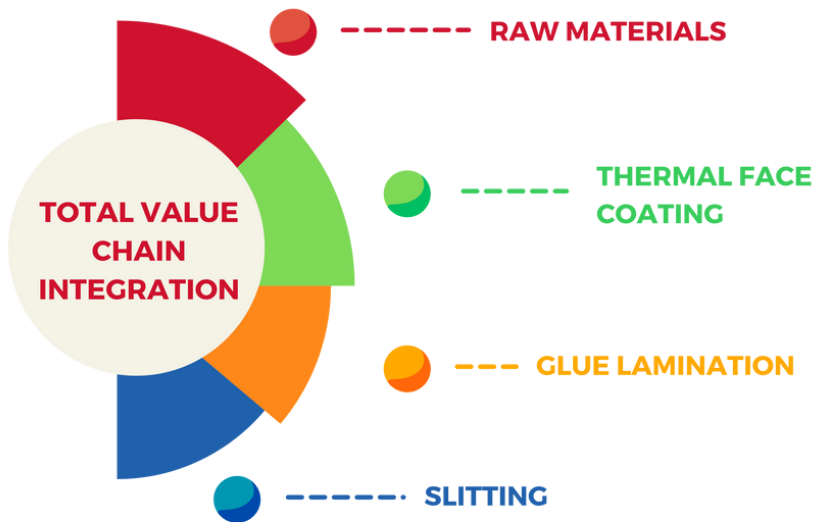


## Suitability Specifics

Ricoh produces a variety of courier-appropriate label options, including traditional liner labels and linerless alternatives, which reduce waste and maximize labels per roll. Our diverse line of direct thermal label products aims to meet specific operational requirements. Whether you need exceptional resistance to plasticizers, the ability to endure high temperatures, near-infrared readability, or a removable adhesive solution, our labels deliver.

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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>130NIR-3</u>	<ul style="list-style-type: none"> <li>• Medium sensitivity and good image resolution with moderate image preservation properties</li> <li>• Top-coated direct thermal label stock</li> <li>• Heat resistant</li> <li>• Ideal for Near Infrared scanning applications with readability up to 670nm</li> </ul>	3.2 mil (81µm)
Paper Base	<u>N140LA</u>	<ul style="list-style-type: none"> <li>• High sensitivity and medium-high image resolution with excellent image preservation</li> <li>• Standard top-coated DT paper</li> <li>• Strong resistance to plasticizers</li> </ul>	3.2 mil (81µm)
Paper Base	<u>130PLL-RN</u>	<ul style="list-style-type: none"> <li>• Silicone linerless label with medium sensitivity</li> <li>• Standard top-coated DT paper</li> <li>• Strong heat resistance</li> <li>• Environmentally friendly solution ideal for multiple applications</li> </ul>	3.5 mil (88µm)
Paper Base	<u>130PLL-RRE</u>	<ul style="list-style-type: none"> <li>• Silicone linerless label with medium sensitivity</li> <li>• Standard top-coated DT paper</li> <li>• Removable adhesive</li> <li>• Environmentally friendly solution ideal for multiple applications</li> </ul>	3.5 mil (88µm)
Paper Base	<u>135PLS-LST</u>	<ul style="list-style-type: none"> <li>• Silicone linerless label with high sensitivity</li> <li>• Standard top-coated DT paper</li> <li>• Strong heat resistance</li> <li>• Environmentally friendly solution ideal for multiple applications</li> </ul>	3.5 mil (90µm)

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 Courier Direct Thermal products.

