

# Industrial Media Solutions

Direct Thermal Labels Stock &  
Thermal Transfer Ribbons



Integrated  
Solution

Integrated  
Product  
Portfolio

Integrated  
Value Chain

Integrated  
Global  
Network

*Life's most precious moments are truly a gift...*

*At Ricoh, we are committed to developing products that enhance life's precious moments to make them as seamless as possible.*

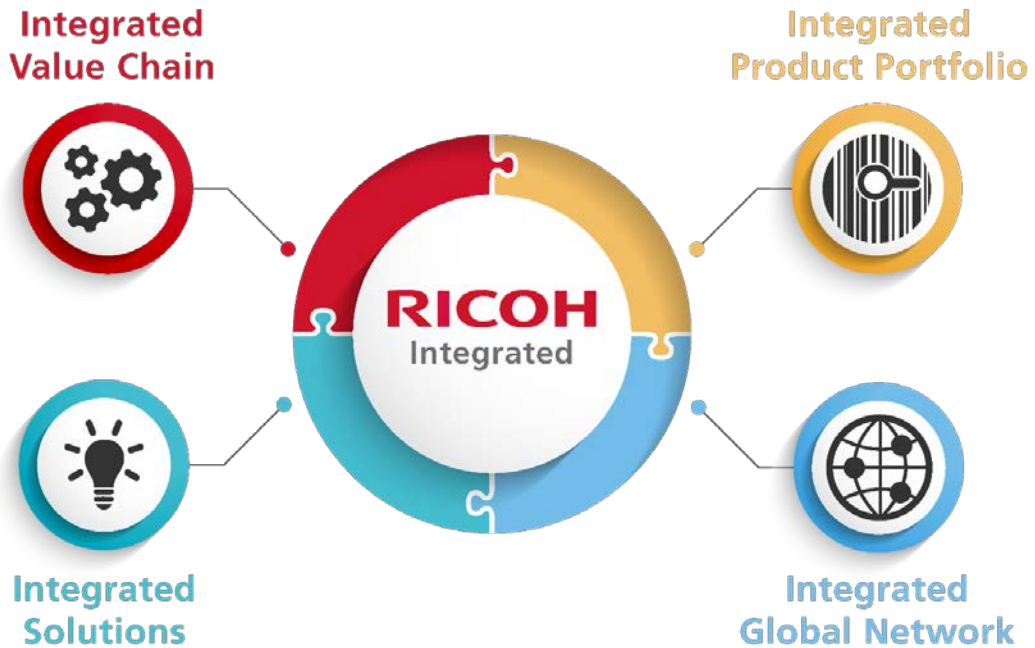


*Most people don't think about the impact labels have on their lives, but if you take a closer look you'll realize that products like Ricoh's thermal media products are seamlessly integrated into our lives, and make a valuable impact, every day.*



# Ricoh Integrated

One of Ricoh's key market advantages is our integrated structure, which adds value and efficiency for our customers.



## Integrated Solution

### Product Application Solution

No matter how complex the challenge, we can develop a solution for it.

## Integrated Product Portfolio

Our diversified product range offers you a total solution product portfolio to meet all of your label application needs.

## Integrated Value Chain

Performance-rich and competitive products with field-proven technologies, coming from our integrated operation.

## Integrated Global Network

Ricoh Group global operations network has wide/diversified product portfolio that can provide total solutions to efficiently manage your back office operations.

# Integrated Solution

## Integrated Solution

### Product Application Solution

No matter how complex the challenge, we can develop a solution for it.



Integrated Solution enables Ricoh to provide total application solutions at optimum efficiency and speed, no matter the complexity.

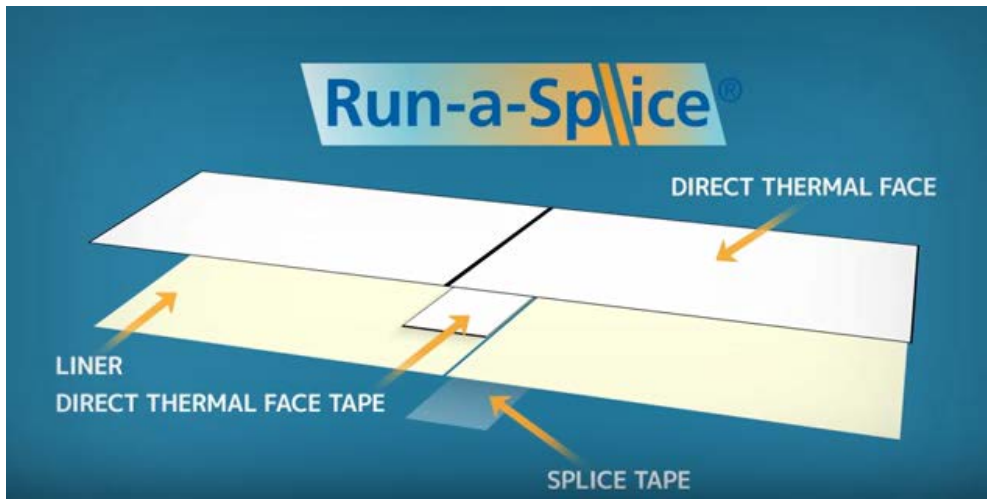
Ricoh's top-coated direct thermal label products are known for their superior image quality, long-term readability, high image preservation performance, and outstanding print head matching properties.

## Application Examples

- Food weigh scale
- Meat processing
- Courier
- Industrial warehouse
- Airline baggage tags
- Healthcare
- Laboratory
- Wristbands
- Shelf tags
- Production/inventory control
- Price/brand tags
- Admission/transportation tickets
- Tag & Ticket



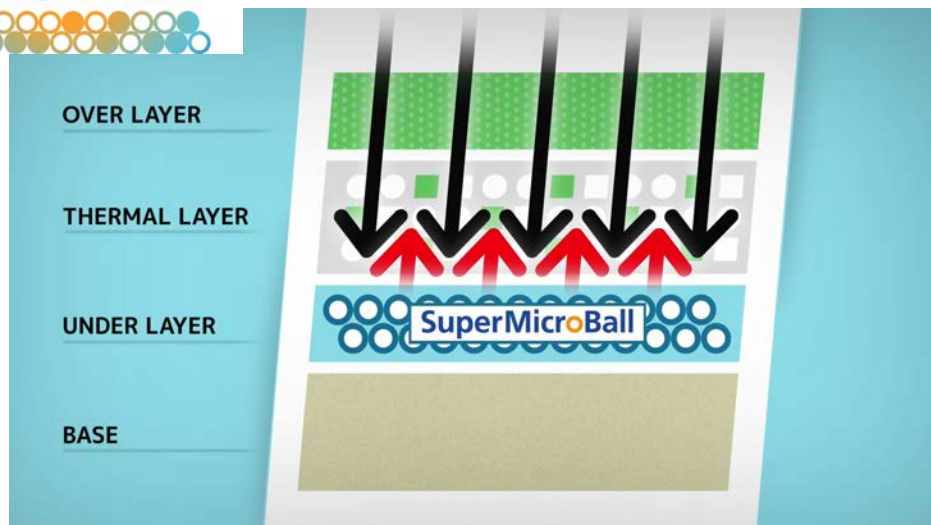
# Our Featured Technologies:



Ricoh's Patented Run-a-Splice technology can make your converting process more efficient:

- Maintain press speed without affecting image quality
- Reduce labor costs of rewinding and splicing
- Minimize material waste

## SuperMicroBall



Ricoh's SuperMicroBall Technology enables the following benefits:

- Cleaner and sharper images for improved scan reflectance profile/symbol contrast
- Longer print head life with less energy consumption for reduced operating costs

# Integrated Product Portfolio



Our diversified product range offers you a total solution product portfolio to meet all of your label application needs.

**Integrated Product Portfolio**

Ricoh offers a broad product portfolio that provides total solutions for your label applications. We recognize that our direct thermal label products are more than just labels--they're collaborators in many of life's most vital moments.

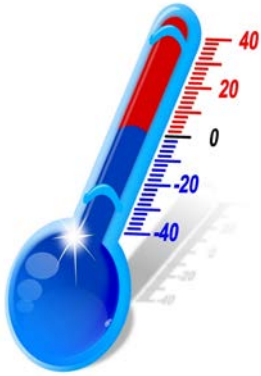
## Direct Thermal Media Products



	Product	Performance Characteristics	Features	Face Caliper	Adhesive Selection
Paper	N140LA	Standard top-coated direct thermal paper Multi-Application Product	High sensitivity Medium-high image resolution Strong image preservation Prints at high speeds Strong resistance to plasticizers	3.2 mil (81µm)	G25 G8 G22
	N150LA-2	Premium top-coated direct thermal paper Excellent image resolution and superior barcode reliability	High sensitivity Highest heat resistance Superb head-matching performance Ideal for high-speed printing	3.0 mil (77µm)	G25
	130NIR-3	Medium sensitivity top coated direct thermal label stock For Near-IR scanning applications	Heat resistant Good image resolution Moderate image preservation properties Near Infrared readability up to 670nm	3.2 mil (81µm)	G25
	150PRx	Premium top-coated direct thermal paper Ideal for healthcare/medical applications	Medium-high sensitivity Strong resistance to medical solutions Superb head-matching performance	3.2 mil (81µm)	G25 G12L
	140TLE	High image resolution High sensitivity	Smooth surface for improved thermal head life Specifically designed for tag/ticket applications High barcode reliability	5.2 mil (132µm)	N/A (Tag)
Film	140LES	Durable polypropylene direct thermal base film High sensitivity	High image sensitivity High image preservation properties High tear and water resistant	4.1 mil (150µm)	G12 G8 G22
	140LDS			2.6 mil (65µm)	G12
	135WRx-60	Durable polypropylene direct thermal base film Medium sensitivity	Moderate image preservation properties Resistant to sanitizers, hand soap, alcohol, etc. Durable polypropylene base film that is tear and water resistant	2.6 mil (65µm)	G12

Specifications may change without notice. For details, please contact our sales team.

# Direct Thermal Media Products Adhesive Guide

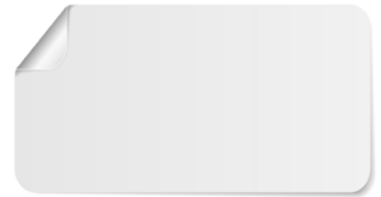


## G25/G12: Wide Temperature Permanent Adhesive

- Excellent adhesion to a wide variety of surfaces including paper, wax paper bags, corrugated board, light waxed corrugated board, various packaging films, glass enamel, and polyethylene, as well as other plastic substrates.
- Specially designed for adhesion to cryovac film, even with light moisture condensation and to other low energy surfaces.
- Excellent initial tack.
- Strong self-dispensing performance in automatic printers.
- Complies with F.D.A. 175.105 for indirect food contact.

## G8: Tight Removable Adhesive

- Good adhesion to most packaging substrates.
- Excellent removability from most substrates.
- Used for applications requiring clean removable properties, such as shelf tags, retail price labels, medical and industrial.
- Complies with F.D.A. 175.105 for indirect food contact.



## G5: General Purpose Permanent Hot Melt Adhesive

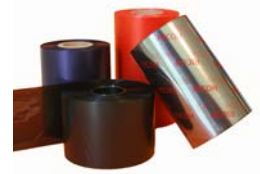
- High initial contact.
- Excellent adhesion on packaging boxes, film and/or a wide range of substrates.
- Complies with F.D.A. 175.105 for indirect food contact.

## G22: Permanent Hot Melt Adhesive for Moist Plastic Substrates at Low Temperatures

- High initial contact.
- Excellent adhesion on plastic substrates in high moisture environments such as meat and poultry processing.
- Complies with F.D.A. 175.105 for indirect food contact.

For additional information on our direct thermal label stock,  
please download the spec sheets from our website or call 1-800-843-7058

# Thermal Transfer Ribbons



	Product	Performance Characteristics	Features
For Flat Head Printer	B110A – Black B210A – Blue B310A – Red	Wax-Resin Smearless	<ul style="list-style-type: none"> <li>- All-purpose wax/resin TTR</li> <li>- Prints on wide variety of media</li> <li>- High resistance to smearing &amp; chemicals</li> <li>- Reliable, sharp-edge print quality</li> <li>- Maximizes barcode scanning rates</li> <li>- Minimizes static electricity &amp; ink flaking problems</li> </ul>
	B110C	Resin Super Smearless	<ul style="list-style-type: none"> <li>- High sensitivity for high-speed printing (~4 inches/sec.) with high printing quality</li> <li>- Super smear resistance at temperatures up to 100°C (212°F)</li> <li>- Superior resistance to solvents (alcohol, petrol, kerosene, brake fluid, engine oil, car wax, etc.)</li> <li>- Special back coating for reliable and superior matching with thermal print head</li> <li>- UL recognized with various printers and films</li> </ul>
	B110CR		<ul style="list-style-type: none"> <li>- Ideal for Automotive, Serial No. Plates, Circuit Board Labels and Pharmaceutical Applications</li> <li>- Produces very high resolution even when printing using a 600dpi thermal head</li> <li>- Excellent resistance to heat, chemicals, solvents and scratches</li> <li>- UL recognized with various printers and films</li> </ul>
	B110CU		<ul style="list-style-type: none"> <li>- Ideal for Automotive, Serial No. Plates, Circuit Board Labels and Pharmaceutical Applications</li> <li>- Produces very high resolution even when printing using a 600dpi thermal head</li> <li>- Excellent resistance to heat, chemicals, solvents and scratches</li> <li>- UL recognized</li> </ul>
	B120HS	Specialty Resin	<ul style="list-style-type: none"> <li>- Prints up to 10 ips</li> <li>- Excellent when printing on general wrapping polypropylene</li> <li>- Superior resistance to oils and water and preservability in cold storage environments</li> <li>- High sensitivity which can be used for high-speed printers</li> <li>- Excellent image quality</li> </ul>
	D110C	Specialty Resin for Textile	<ul style="list-style-type: none"> <li>- Printable on receiving cloths (nylon, polyester and acetate) and films</li> <li>- Super smear resistance up to 150°C (302°F); no blurring of image occurs from ironing</li> <li>- Print images are highly durable against water and dry cleaning</li> <li>- Superior thermal head matching qualities using Ricoh's unique back-side coating</li> </ul>
Near Edge Printer	B120E	Wax-Resin Smearless	<ul style="list-style-type: none"> <li>- All-purpose wax/resin TTR</li> <li>- Prints on wide variety of media</li> <li>- High resistance to smearing &amp; chemicals</li> <li>- Excellent at high-speed printing as high as 10 inches/sec.</li> <li>- Reliable, sharp-edge print quality</li> <li>- Maximizes barcode scanning rates</li> <li>- Minimizes static electricity &amp; ink flaking problems</li> </ul>
	D110A	Specialty Resin for Textile	<ul style="list-style-type: none"> <li>- Printable on receiving cloths (nylon, polyester and acetate) and films</li> <li>- Super smear resistance up to 150°C (302°F); no blurring of image occurs from ironing</li> <li>- Print images are highly durable against water and dry cleaning</li> <li>- Superior thermal head matching qualities using Ricoh's unique back-side coating</li> </ul>
Near Edge Coders	B130ED	Wax-Resin Smearless	<ul style="list-style-type: none"> <li>- High image density ribbon</li> <li>- Printing for various films, such as Polypropylene &amp; Polyethylene</li> <li>- Super high-speed printing (up to 24 ips)</li> <li>- High image density</li> </ul>

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# Integrated Value Chain

## Integrated Value Chain

Performance-rich and competitive products with field-proven technologies, coming from our integrated operation.



We manufacture the total label products on-site, meaning, we develop and manufacture the Direct Thermal face, the release liner, the adhesive laminated label stock, and we custom slit to label converters' specifications, right in our own facility. Integrated Label Products Manufacturing Value Chain - This is the Ricoh advantage!

## Thermal Coating



## Lamination



## Slitting



# Integrated Global Network

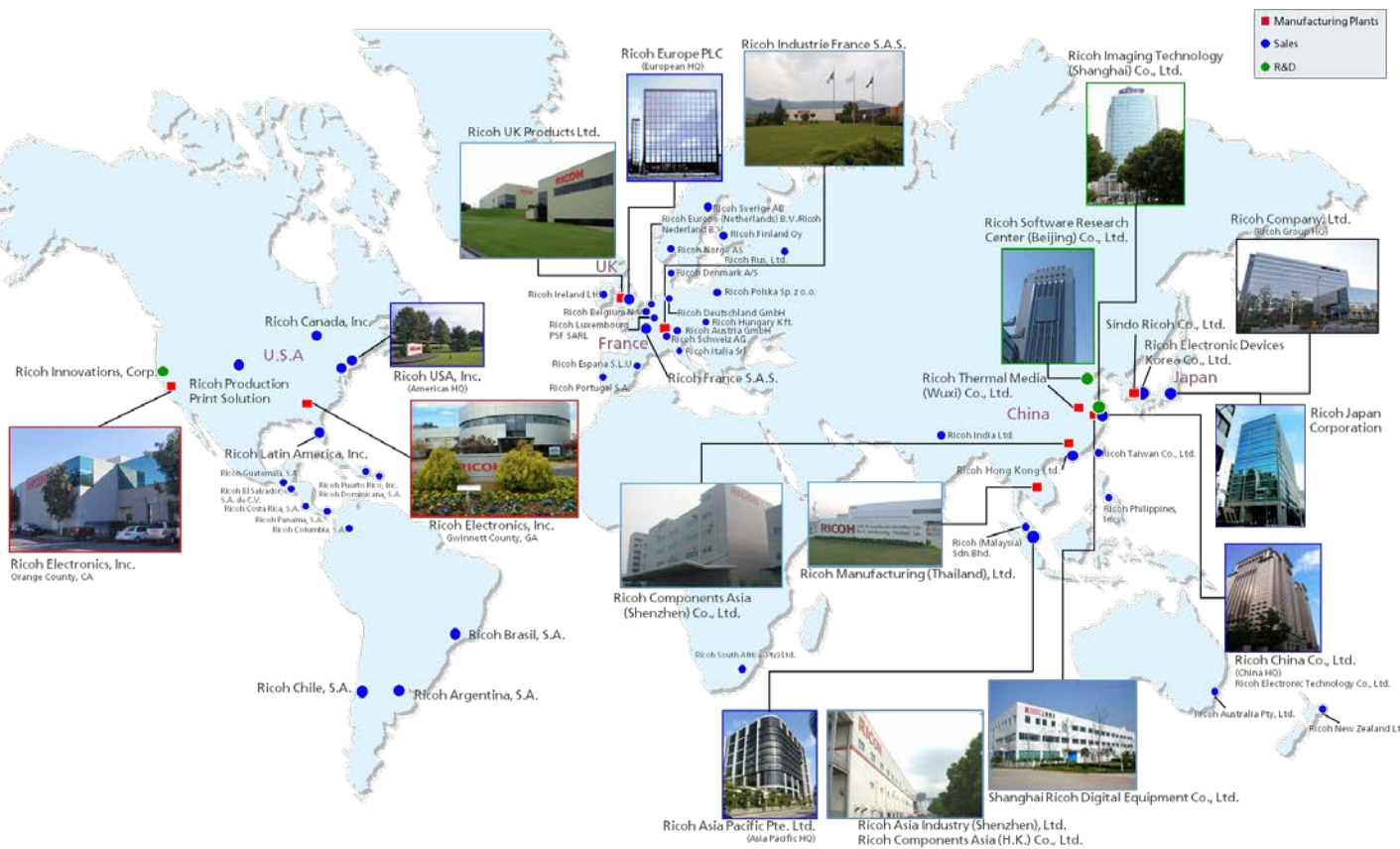


Ricoh Group global operations network has wide/diversified product portfolio that can provide total solutions to efficiently manage your back office operations.

**Integrated Global Network**

The Ricoh Group has sales and support, production, and research and development operations in around 200 countries and regions, worldwide.

We provide solutions, not just for label applications, but for a wide range of back office automation systems as well. We provide a wide and diversified product portfolio to companies, large and small, around the world.



# Company

## Who are we?

Ricoh Electronics, Inc. is one of 226 consolidated companies which comprise Ricoh Company, Ltd., a leading provider of document management solutions, IT services, commercial and industrial printing, digital cameras and industrial systems. We produce thermal media and toner products at our facilities in Lawrenceville and Buford, Georgia.

## Contact Us

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[www.RicohThermalProduct.com](http://www.RicohThermalProduct.com)



## Our Locations



Tustin, California



Lawrenceville,  
Georgia



Buford, Georgia



Pro C5200

This brochure was printed with Ricoh PRO C5200

**RICOH**  
imagine. change.

[RicohThermalProducts.com](http://RicohThermalProducts.com)

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