

B110A

(For Flat Head Printers)

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Thermal Transfer Ribbon Product Information

WAX-RESIN SMEARLESS

Other colors available: **B210A (Blue)** and **B310A (Red)**

Last update:
Apr. 2017
Ref: PS-1698 (Rev. 2)

RIBBON PROPERTY

- Base Material
- Base Thickness (μm)

Polyester film
4.5 \pm 0.4

INK PROPERTY

- Ink Color
- Ink Transparency

Black
Min. 1.2

PRINTING PROPERTY

- Image Density (check w/ X-Rite)
- ANSI Grade

Min. 1.25
Min. Vertical Bar ANSI 2.0 C

IMAGE PROPERTY

- Scratch Resistance (Times)
- Light Resistance
- Water Resistance

Min. 100
Min. ANSI 2.0 C
Min. ANSI 2.0 C

** All tests specifications are based on Ricoh's standard test methods.*

USAGE ENVIRONMENT:

5 ~ 35°C (41 ~ 95°F), 30 ~ 85%RH

STORAGE CONDITIONS:

Keep indoors, away from high temperatures, high humidity and direct sunlight. Keep master rolls hanging horizontally.

GUARANTEE PERIOD:

2 years after manufacturing.

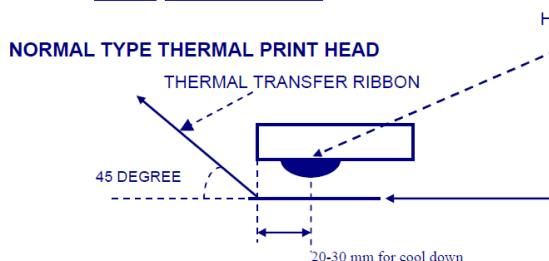
FEATURES:

- All purpose wax/resin TTR
- Prints on wide variety of media
- High resistance to smearing & chemicals
- Reliable, sharp-edge print quality
- Maximizes barcode scanning rates
- Minimizes static electricity & ink flaking problems

Ribbon Selection Tips

For Flat type thermal print head

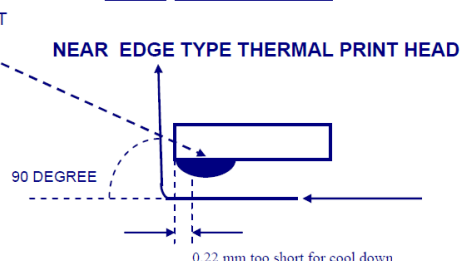
B110A is recommended



Ink from Ribbon has adequate cooling time before ribbon is peeled from substrate.

For Near edge type thermal print head

B120E is recommended



Near-Edge Head technology requires a different type of ribbon that can transfer ink before cooling down.

The above data represents product averages, allowing for industry accepted variances. These products should be tested in the end-use conditions to ensure that they meet the requirements of the specific application. Specifications may change without notice.

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B120HS

(For Flat Head Printers)

Thermal Transfer Ribbon Product Information

RESIN SPECIALTY

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Last update:
Aug. 2016
Ref: PS-1385 (Rev. 1)

RIBBON PROPERTY

- Base Material Polyester film
- Base Thickness (μm) 4.5 ± 0.4

INK PROPERTY

- Ink Color Black
- Ink Transparency Min. 1.2

PRINTING PROPERTY

- Image Density Min. 1.5
- Thermo Sensitivity Min. 0.38mj/dot
- Image Resolution Readable without ink smearing

IMAGE PROPERTY

- Scratch Resistance (Times) Min. 25
- Oil Resistance Min. ANSI 2.0 C
- Water Resistance Min. ANSI 2.0 C
- Preservability in cold storage Min. ANSI 2.0 C

** All tests specifications are based on Ricoh's standard test methods.*

USAGE ENVIRONMENT:

5 ~ 35°C (41 ~ 95°F), 30 ~ 85%RH

STORAGE CONDITIONS:

Keep indoors, away from high temperatures, high humidity and direct sunlight. Keep master rolls hanging horizontally.

GUARANTEE PERIOD:

- *Finished rolls: 2 years after manufacturing
- *Master rolls: 1 year after coating

FEATURES:

- Excellent when printing on general wrapping polypropylene
- Superior resistance to oils and water and preservability in cold storage environments
- High sensitivity which can be used for high-speed printers
- Excellent image quality

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B130ED

(For Near Edge Printers)

Thermal Transfer Ribbon Product Information

WAX-RESIN SMEARLESS (For Date Coding)

Last update:
Jan. 2017
Ref: PS-2100 (Rev. 1)

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RIBBON PROPERTY

- Base Material
- Base Thickness (μm)

Polyester film
4.5 \pm 0.4

INK PROPERTY

- Ink Color

Black

IMAGE PROPERTY

- Image Density (transmission)
- Receiving materials (packaging film)

Min. 1.2 (nylon)
OPP, PE, PET, Nylon

IMAGE DURABILITY

- Friction Resistance
- Scratch Resistance (times)
- Light Resistance
- Water Resistance

Readable
Min. 500
No image disorder
No image disorder

**All tests specifications are based on Ricoh's standard test methods.*

USAGE ENVIRONMENT:

10 ~ 35°C (50 ~ 95°F), 10 ~ 95%RH

STORAGE CONDITIONS:

Keep indoors, away from high temperatures, high humidity and direct sunlight. Keep master rolls hanging horizontally.

* Finished rolls: -20-40°C, 10-90% RH

* Master rolls: 35°C, 85% RH or less

GUARANTEE PERIOD:

*Finished rolls:

4 years after manufacturing

*Master rolls:

1 year after coating

FEATURES:

- Printing for various films, such as Polypropylene & Polyethylene
- Super high-speed printing (up to 24 inches/sec)
- High image density
- For near-edge printers

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Ricoh Electronics, Inc. • 1125 Hurricane Shoals Road • Lawrenceville, GA 30043 • www.RicohThermalProducts.com

Customer Service: 1.800.843.7058 • Toll Free FAX: 1.888.843.7059 • email: orders@rei.ricoh.com

D110C

(For Flat Head Printers)

Thermal Transfer Ribbon Product Information

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Last update:
Apr. 2017
Ref: PS-1795 (Rev. 1)

RESIN SPECIALTY (For Textile Applications)

RIBBON PROPERTY

- Base Material
- Base Thickness (μm)

Polyester film
4.5 ± 0.4

INK PROPERTY

- Ink Color
- Ink Transparency

Black
More than 0.65 ~ 1.65

IMAGE PROPERTY

- Image Density

Min. 1.2 (nylon)
Min. 0.8 (polyester)
Min 1.0 (acetate)
Min. ANSI B

- Image Resolution

IMAGE DURABILITY

- Ironing Resistance
- Smear Resistance (wet)
- Washing Resistance (water 5 times)

- Washing Resistance (dry 5 times)

- Bleach Resistance

- Sweat Resistance

GD max. 0.07 (background image density w/direct and indirect ironing 10x)
Image not changed after rubbing 10x
ID min 1.20 (nylon)
ID min 0.95 (polyester)
ID min 0.75 (acetate)
ID min 1.25 (nylon)
ID min 1.20 (polyester)
ID min 1.00 (acetate)
ID min 1.50 (nylon)
ID min 1.25 (polyester)
ID min 1.10 (acetate)
ID min 1.40 (nylon)
ID min 1.20 (polyester)
ID min 1.00 (acetate)

ID(GD): The differences in image (ground) density resulting from the “before test” and “after test”
**All tests specifications are based on Ricoh's standard test methods.*

USAGE ENVIRONMENT:

5 ~ 35°C (41 ~ 95°F), 30 ~ 85%RH

STORAGE CONDITIONS:

Keep indoors, away from high temperatures, high humidity and direct sunlight. Keep master rolls hanging horizontally.

GUARANTEE PERIOD:

- *Finished rolls: 2 years after manufacturing
- *Master rolls: 1 year after coating

FEATURES:

- Printable on receiving cloths (nylon, polyester and acetate) and films
- Super smear resistance up to 150°C (302°F); no blurring of image occurs from ironing
- Print images are highly durable against water and dry cleaning
- Superior thermal head matching qualities using Ricoh's unique back-side coating

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