

# B110C

(For Flat Head Printers)

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## Thermal Transfer Ribbon Product Information

Last update:  
Aug. 2016  
Ref: PS-1102 (Rev. 1)

### RESIN SUPER SMEARLESS

#### RIBBON PROPERTY

- Base Material
- Base Thickness ( $\mu\text{m}$ )

Polyester film  
4.5  $\pm$  0.4

#### INK PROPERTY

- Ink Color
- Transmission Density

Black  
Min. 0.65

#### IMAGE PROPERTY

- Scratch Resistance (times)
- Light Resistance (ANSI)
- Water Resistance (ANSI)
- Chemical Resistance (times)  
Ethanol  
Kerosene  
Engine Oil  
Gasoline  
Hexane

<WHITE PET>  
Min. 150  
Min. 100  
Min. 2000  
Min. 160  
Min. 1500

Min. 1850  
Min 3.5 A  
Min 3.5 A  
<SILVER PET>  
Min. 1000  
Min. 2000  
Min. 2000  
Min. 1000  
Min. 2000

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

#### 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:

- High sensitivity for high-speed printing (~4 inches/sec.) with high printing quality assured
- Super smear resistance at temperatures up to 100°C (212°F)
- Superior resistance to solvents (alcohol, petrol, kerosene, brake fluid, engine oil, car wax, etc.)
- Special back coating for reliable and superior matching with thermal print head
- UL recognized with various printers and films

*The above data represents product averages, allowing for industry accepted variances. Specifications may change without notice.*

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# B110CR

(For Flat Head Printers)

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## Thermal Transfer Ribbon Product Information

### RESIN SUPER SMEARLESS

Last update:  
Aug. 2016  
Ref: PS-1659 (Rev. 1)

#### RIBBON PROPERTY

- Base Material
- Base Thickness ( $\mu\text{m}$ )

Polyester film  
4.5  $\pm$  0.4

#### INK PROPERTY

- Ink Color

Black

#### IMAGE PROPERTY

- Image Density
- Image Resolution
- Scratch Resistance
- Chemical Resistance
- Ethanol, Methanol
- IPA (Isopropyl Alcohol)
- Windshield Washer
- Gasoline, Diesel Fuel, Gasohol
- Engine Oil, Mission Fluid
- Power Steering Fluid
- Brake Fluid
- Engine Coolant

1.5 minimum  
Excellent  
Excellent  
Excellent  
Excellent  
Excellent  
Excellent  
Excellent  
Excellent  
Excellent  
Excellent  
Excellent

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

#### 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:

- Ideal for Automotive, Serial No. Plates, Circuit Board Labels and Pharmaceutical Applications
- Produces very high resolution even when printing using a 600dpi thermal head
- Excellent resistance to heat, chemicals, solvents and scratches
- UL recognized with various printers and films

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# B110CU

(For Flat Head Printers)

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## Thermal Transfer Ribbon Product Information

### RESIN SUPER SMEARLESS

Last update:  
Aug. 2016  
Ref: PS-1384 (Rev. 1)

#### RIBBON PROPERTY

- Base Material
- Base Thickness ( $\mu\text{m}$ )

Polyester film  
4.5  $\pm$  0.4

#### INK PROPERTY

- Ink Color

Black

#### IMAGE PROPERTY

- Image Density
- Image Resolution
- Scratch Resistance (scratched x 100 by sharp edge at 40°)
- Resistance to smear and heat (rubbed x 100 in 100°C)
- Chemical Resistance (wiped x 100 with cotton cloth at 100gf/cm<sup>2</sup>)
  - Ethanol, Methanol
  - IPA (Isopropyl Alcohol)
  - MEK (Methyl Ethyl Ketone)
  - Thinner
  - Xylene
  - Brake Fluid
  - Water

1.5 minimum  
Excellent  
Excellent  
Excellent  
Excellent  
Excellent  
Excellent  
Excellent  
Excellent  
Excellent

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

#### 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:

- Ideal for Automotive, Serial No. Plates, Circuit Board Labels and Pharmaceutical Applications
- Produces very high resolution even when printing using a 600dpi thermal head
- Excellent resistance to heat, chemicals, solvents and scratches
- UL recognized

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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 ( $\mu\text{m}$ )  $4.5 \pm 0.4$

#### 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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