

# B110C

Flat Head

Resin

Black



B110C Thermal Transfer Ribbon

## FEATURES

- Higher heat resistance up to 150°C.
- Good chemical and solvent resistance.
- **Applicable to a wide range of synthetic materials: film PET/PP/PE/PVC...**
- Ricoh's unique coating on the back allows reliable and superior matching qualities with the thermal head.

## APPLICATION AREAS



Automotive



Chemical Industry

## GENERAL CONDITIONS

**Usage conditions:** 5 to 35°C at 30 to 85% of relative humidity.

**Storage life:** 24 months after slitting day.

**Storage conditions:** Keep-in-door, avoiding high temperature (such as beside heat source), high humidity, direct sun light...

## CERTIFICATES / REGISTRATION / DIRECTIVES

- TSCA (Toxic Substances Control Act)
- Directive RoHS
- Directive WEEE
- Directive 2003/11/EC
- Directive 2000/53/EC
- Directive 76/769/EC
- ISO EN71-3
- REACH Compliant

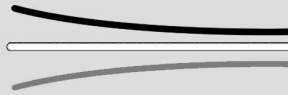


*For other directives, please contact us.*

**RICOH**

## RIBBON PROPERTIES

Ink melting point: 83°C  
 Polyester film thickness: 4.5µm  
 Friction coefficient: < 0.045



Total ribbon thickness: <9µm  
 Tearing resistance: >200N/mm<sup>2</sup>  
 Transmission density: 1.00 mini

## PRINTING PROPERTIES

Maximum printing speed: 4 IPS

	Non Coated Paper	Coated Paper	PET	PP	PE	PVC
Compatibility	no	no	✓	✓	✓	✓
Image density	-	-	1.53	1.57	1.57	1.46

**Note:** Smoothness Bekk for paper family must be over 2000s

### Image Resolution for Film:

- Minimum Size:
- For the line: 0.1mm
  - For the characters: 1.0mm

## DURABILITY OF PRINTED IMAGE

### TESTS

#### Smear + heat (100°C):

Smear with cardboard  
 (weight 1kg – 50 back and forwards)

#### Heat (150°C):

Heat gradient 3,6kgF/cm<sup>2</sup>

#### Scratch:

50 back and forwards with a rub tester

#### Light:

Xenon lamp at 650W/m<sup>2</sup>

#### Water:

24 hours in water

### RESULTS

ANSI > B

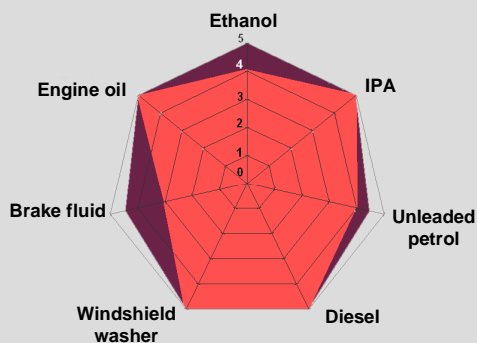
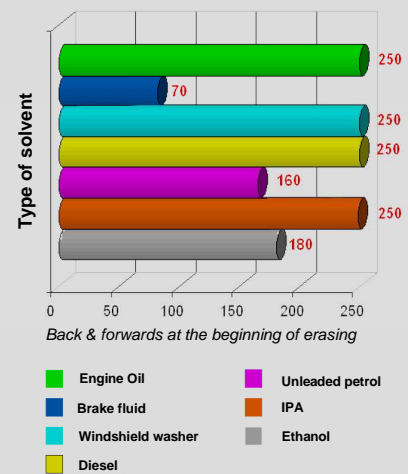
No ink on the cotton fabric

ANSI > B

ANSI A

ANSI A

B110C with standard matt white polyester



### B110C Durability:

5: No damage (Good)

0: Erased (Bad)

■ B110C with **standard** white polyester

■ B110C with **specific** polyester\*

\*dedicated to solvent resistance

**Note:** These performances are for guidance only. Results are obtained with adapted receiving material and optimum print conditions (Ricoh test method).