

Flat head

Resin

# B110CU

Black

## FEATURES

- Higher heat resistance up to 250°C.
- Ultra chemical & solvent resistance.
- Usage on dedicated receiving materials (listed below).
- Ricoh's unique coating on the back allows reliable and superior matching qualities with the thermal head.

## APPLICATION AREAS



Automotive



Chemical industry



Electronics



Healthcare

## GENERAL CONDITIONS

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

Storage life: 24 months after slitting day.

Storage conditions: Keep indoor avoiding high temperature (such as beside a heat source), high humidity, direct sun light.

## CERTIFICATES / REGISTRATION / DIRECTIVES

- TSCA (Toxic Substances Control Act)
- RoHs
- WEEE
- 2003/11/EC
- 2000/53/EC
- 76/769/EEC
- ISO EN71-3
- REACH
- BS 5609



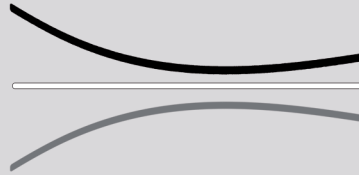
For other directives, please contact us.

## RIBBON PROPERTIES

Ink melting point: 112°C

Polyester film thickness: 4.5µm

Friction coefficient: < 0.045



Total ribbon thickness: < 9µm

Tearing resistance: > 200N/mm<sup>2</sup>

Transmission density: 0.65mini

## PRINTING PROPERTIES

Maximum printing speed: 3IPS

	Non coated paper	Coated paper	Recommended white PET	Recommended white PP	Recommended silver PP
Compatibility	X	X	✓	✓	✓
Image density	-	-	1.65	1.81	1.68

Image resolution for film:

Minimum size: - For the lines: 0.1mm

- For the characters : 1.0mm

## RECEIVING MATERIALS

B110CU must only be used on the following materials to achieve its resistance.

- **Recommended:**

FLEXcon P-300-HW MTC410 (White PP), 3M 76962 AR MW, PET50 (Silver PET), 76964 AR MS PET50 (Silver PET), 76959 AR MV PP60 (White PP), Hanita Coatings K05077P (White glossy), Hueck Folien Hiperprime series.

- **Materials with good compatibility:**

MADICO DURAFOL (White and Silver PET), FLEXcon THERMfilm CHEMGARD Series (White, Silver and Transparent PET), 3M 7870E (White PET), Fasson Transfer PET matt white / silver Top Chem Res (White and silver PET).

## DURABILITY OF PRINTED IMAGE

### TESTS

Smear + heat (100°C)  
Smear with cardboard  
(weight 1kg - 50 back and forwards)

Heat (220°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

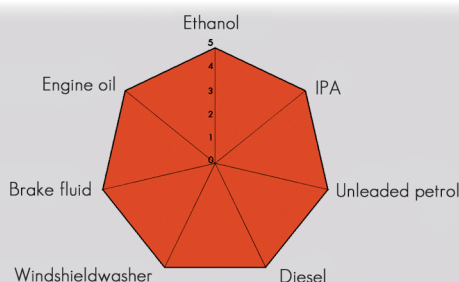
No ink on the cotton fabric

ANSI > B

ANSI A

ANSI A

### B110CU with dedicated white polyester



### B110CU durability

5: No damage (Good)

0: Erased (Bad)

B110CU with dedicated white polyester

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