

B120EC

Flat Head
Near Edge

Resin

Black

B120EC Thermal Transfer Ribbon

FEATURES

- Higher heat resistance up to 150°C.
- **Excellent chemical and solvent resistance.**
- High resolution for 600DPI printers.
- **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



Electronics



Direct Food Contact

GENERAL CONDITIONS

Usage conditions: 5 to 40°C at 10 to 95% 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
- REACH Compliant
- BS 5609



For other directives, please contact us.

RICOH

RIBBON PROPERTIES

Ink melting point: 97°C
Polyester film thickness: 4.5µm
Friction coefficient: <0.045



Total ribbon thickness: <9µm
Tearing resistance: >200N/mm²
Transmission density: 0.65 mini

PRINTING PROPERTIES

Maximum printing speed: 10 IPS

	Non Coated Paper	Coated Paper	PET	PP	PE
Compatibility	Partial	✓	✓	✓	✓
Image density	-	1.76	1.60	1.81	2.05

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 – FLAT HEAD TECHNOLOGY

TESTS

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

Heat (200°C):
Heat gradient 3,6kgF/cm²

Scratch:
50 back and forwards with a rub tester

Light:
Xenon lamp at 650W/m²

Water:
24 hours in water

RESULTS

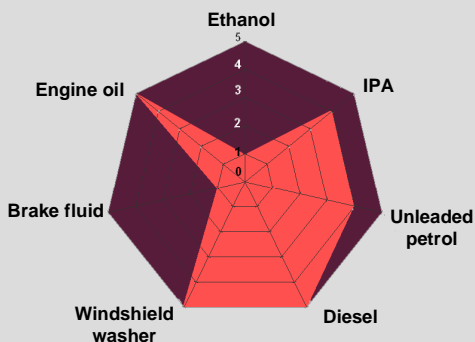
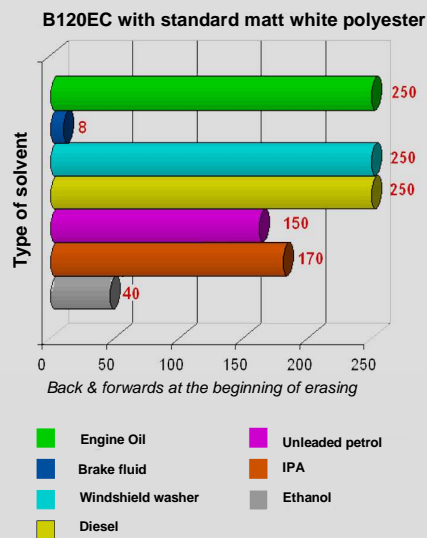
ANSI > B

No ink on the cotton fabric

ANSI > B

ANSI A

ANSI A



B120EC Durability:

5: No damage (Good)

0: Erased (Bad)

■ B120EC with standard white polyester

■ B120EC 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).