# PRG 50818

**PREMIUM - WAX/RESIN FOR FLAT HEAD**

- **EXCELLENT RECEPTOR MULTI-COMPATIBILITY AND SENSITIVITY**
- **HIGH SPEED PRINTING CAPABILITY**
- **VERY GOOD PRINTING QUALITY**

**PRG 50818** is a highly sensitive premium wax/resin ribbon designed to give excellent printing performance at low energy. It can be printed on a wide range of substrates with the same level of performance.

The ink provides excellent printing quality for all types of barcodes, very small text, large characters and logos, at a blackness up to 2.1 (ODR).
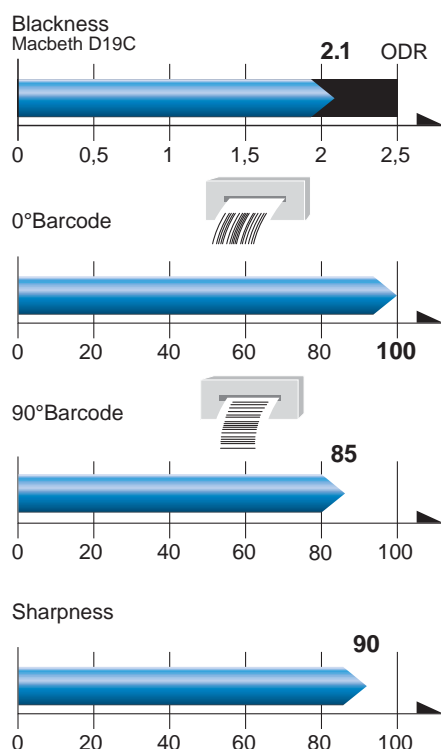
The ribbon structure allows printing on a wide range of receptors, such as uncoated and coated papers and synthetics.

The printed image offers a good level of smudge resistance combined with heat resistance up to 100°C.

Those characteristics remain at speeds up to 300 mm/s (12 ips), and with 200, 300 and 600 DPI printheads, making this ribbon perfectly adapted to the labelling market.

**PRG 50818** grade feature outstanding backcoat technology, ensuring excellent printhead protection, preventing clogging and static build-up.
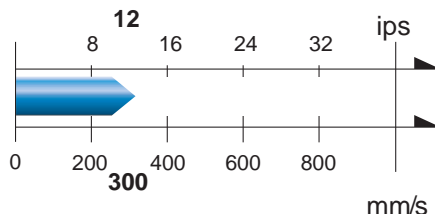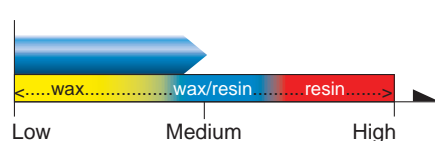
## PRINTING QUALITY

**Blackness** Macbeth D19C — **2.1** ODR
Scale: 0, 0,5, 1, 1,5, 2, 2,5

**0°Barcode** — **100**
Scale: 0, 20, 40, 60, 80, 100

**90°Barcode** — **85**
Scale: 0, 20, 40, 60, 80, 100

**Sharpness** — **90**
Scale: 0, 20, 40, 60, 80, 100

## SENSITIVITY

**Receptor Compatibility**

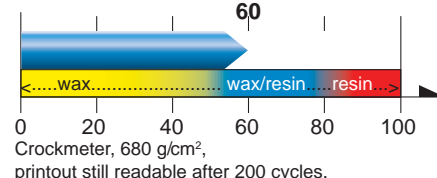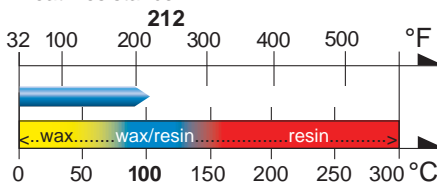| | |
|---|---|
| Vellum (e.g. 3101...) | ■ ■ |
| Coated papers (e.g. 5006...) | ■ ■ |
| High gloss papers (e.g. 5004...) | ■ ■ |
| Synthetics (e.g. 5096, 5112...) | ■ ■ |

**Printing Speed** — **12** ips
Scale ips: 8, 16, 24, 32
Scale mm/s: 0, 200, **300**, 400, 600, 800

**Energy**
<.....wax.................wax/resin.........resin.....>
Low — Medium — High

## RESISTANCES

**Mechanical Resistances** — **60**
<.....wax.................... wax/resin .....resin ...>
Scale: 0, 20, 40, 60, 80, 100
Crockmeter, 680 g/cm², printout still readable after 200 cycles.

**Heat Resistance** — **212** °F
Scale °F: 32, 100, 200, 300, 400, 500
<..wax........ wax/resin ...........resin .........>
Scale °C: 0, 50, **100**, 150, 200, 250, 300

**Other Resistances**

Light
Blue Wool: 0 1 2 3 4 5 6 7 8

Water
Submerge: 0 20 40 60 80 100

Solvents
0 20 40 60 80 100
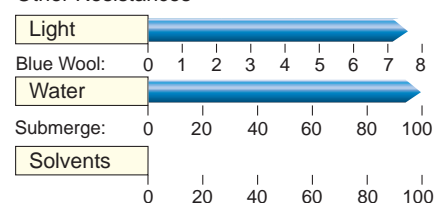
# PRG 50818

**PREMIUM - WAX/RESIN
FOR FLAT HEAD**

**TYPE
RITE 08
LIMITED**

## ⬤ EXAMPLES OF APPLICATION FIELDS

The characteristics of PRG 50818 answer the requirements of the following application fields:
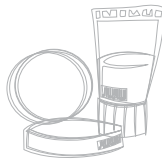(If your application is not among the ones below, please contact us.)

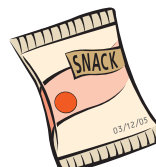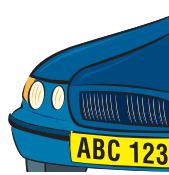| | | |
|---|---|---|
| Inventory | Shipping | Pharmaceutical |
| Cosmetics | Flexible Packaging | Flexible Packaging for frozen applications |
| Flexible Packaging for hot processes | | |

| | | |
|---|---|---|
| Rating plates | CDs | Retail labeling |
| Care labels | Signage & Logos | Laboratory |
| Healthcare | | |

| | | |
|---|---|---|
| Tags | Food contact | Livestock |
| Outdoor applications | Conveyor sorting | Chemical drums |
| Automotive | | |
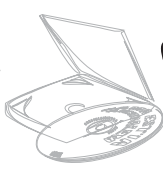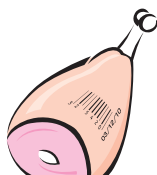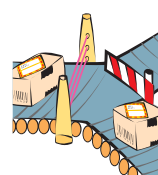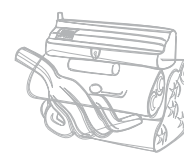
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## CERTIFICATIONS & APPROVALS

**Food contact:** This ribbon is compliant with the European Directive 1935/2004/EC.

**UL Approved:** Legibility and durability of the printed label.

**Heavy metals:** The ribbon is compliant with EC 95/638. SGS reports available upon request.

**RoHs/WEEE:** EC directives 2002/95 and 2002/96, compliance to the limitation of dangerous substances in electric and electronic equipments.

**REACH:** As a European manufacturer, ARMOR is completely fulfilling REACH requirements. Our ribbons are free from the Substances of Very High Concern (SVHC).

**CP65:** The ribbon is free from the substances listed.

**Halogen:** this ribbon is halogen free.

Contact us for all other regulations linked to product compliance with toxicity, treatment of wastes, banned components, packaging, etc.

## RIBBON SPECIFICATIONS

Backcoating →
PET film →
Ink layer(s) →
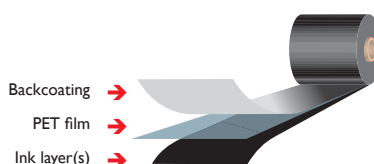
**Backcoating:**
Silicon based.
Friction coefficient: Kd < 0.2.

**PET film:**
Thickness: 4.5 µm.
Tearing resistance: > 300 N/mm²(MD).

**Ink:**
Wax.
Melting point: 75°C
(Manufacturer procedure).

**Ribbon:**
Thickness (black): < 9 µm.
The ribbon is anti static build-up treated.
Storage: 12 months, 5-35°C (40-95°F),
20-80 % Humidity Rate.

## COLOUR RANGE

Data exposed in this sheet are for the black ribbon. Printing performance of the colour ribbons are close to black ones.

| | |
|---|---|
| ⬤ Black | ◯ White |
| ⬤ Dark Blue (286 C) | ⬤ Dark Green (554 C) |
| ⬤ Dark Red (485 C) | ⬤ Grey (5425 C) |
| ⬤ Blue (Reflex Blue C) | ⬤ Light Red (1788 C) |
| ⬤ Light Green (Green C) | ⬤ Brown (463 C) |

Film produced in a factory certified on:
- **ISO 9001** - Quality management with a principal objective of customer satisfaction.
- **ISO 14001** - Environmental protection.
- **OHSAS 18001** - Safety and Health of the workforce.

AFAQ ISO 9001    AFAQ ISO 14001    AFAQ OHSAS 18001

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