

AWX® FH

ENHANCED WAX
FOR FLAT HEAD

THERMAL TRANSFER RIBBONS

AWX® FH is ARMOR new generation resin enhanced wax ribbon, particularly adapted to standard label printing where good mechanical resistance is required.

The ink provides excellent print quality of standard and ladder barcodes, very small text, large characters, and logos, at a blackness up to 2.0 (ODR).

The ribbon structure allows printing on various receptors, such as coated and uncoated papers and some synthetics.

The printed image offers improved smudge resistance compared to standard wax and heat resistance up to 100°C (212°F).

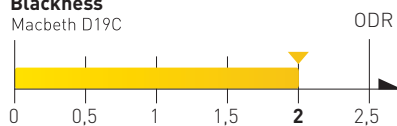
These characteristics remain at speeds up to 300 mm/s (12 ips) and with 200, 300 and 600 DPI printheads.

AWX® FH grade features ARMOR's outstanding backcoat technology, ensuring excellent printhead protection, preventing clogging and static build-up, which prolongs printhead life and makes this ribbon suitable for printing on RFID tags.

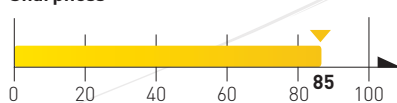
- ▶ **VERY HIGH SMUDGE RESISTANCE**
- ▶ **VERY GOOD PRINTING QUALITY**
- ▶ **EXCELLENT RECEPTOR MULTI-COMPATIBILITY AND SENSITIVITY**

PRINTING QUALITY

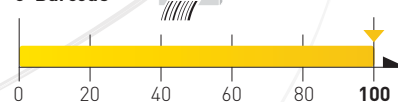
Blackness
Macbeth D19C



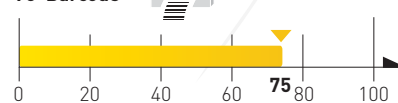
Sharpness



0°Barcode

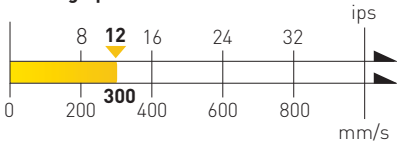


90°Barcode

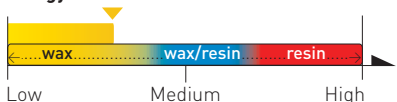


SENSITIVITY

Printing Speed



Energy



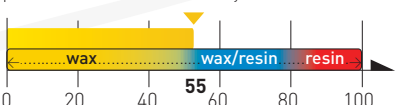
Receptor Compatibility

Uncoated papers	■ ■
Coated papers	■ ■
High gloss papers	■ ■
Synthetics	■

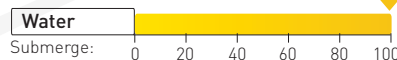
RESISTANCES

Mechanical Resistances

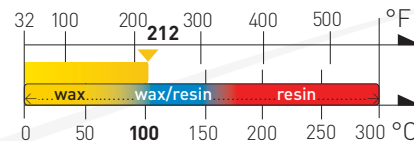
Crockmeter, 680 g/cm², printout still visible after 200 cycles.



Other Resistances



Heat Resistance



Evaluation of observed performances of the ribbon with optimized printer settings and receptors (ARMOR procedure).

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COLOR RANGE

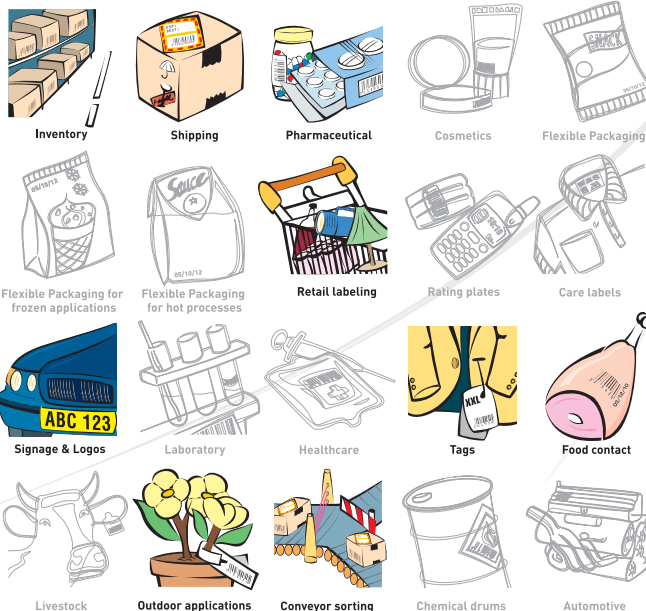
For color ribbons, please look to the AWR® or APR® ranges with similar performances.



Black

EXAMPLES OF APPLICATION FIELDS

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



CERTIFICATIONS AND APPROVALS

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

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.

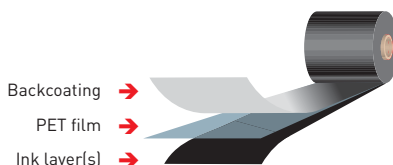
REACH: As a European manufacturer, ARMOR is completely fulfilling REACH requirements. Our ribbons are free from the Substances of Very High Concern (SVHC).

TSCA: The ribbon does not contain any substance of this list.

CP65: The ribbon is free from the substances listed except carbon black.

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

RIBBON SPECIFICATIONS



Backcoating:
Silicon based.
Friction coefficient: $K_d < 0.2$.

PET film:
Thickness: 4.5 μm .
Tearing resistance: $> 300 \text{ N/mm}^2(\text{MD})$.

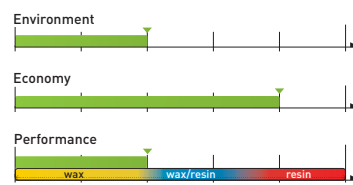
Ink:
Wax.
Melting point: 65°C (149°F)
(ARMOR procedure).

Ribbon:
Thickness (black): $< 8.5 \mu\text{m}$.
The ribbon is anti static build-up treated.
Storage: 12 months, 5-35°C (40-95°F),
20-80 % Humidity Rate.

SUSTAINABLE DEVELOPMENT

ARMOR evaluation of AWX®FH:

To be compared with our other grades.



The film is produced in one of the industry's most organized and awarded factories:

DECAPLAN:

Sustainable development action plan based on 10 leading topics involving all profiles of the company.

Global Compact:

UNO initiative inviting companies to apply fundamental ethical and environmental values.

Responsible Care:

International Council of Chemical Associations' charter towards constant improvements in health, safety and environment.

Quality, health, safety and environment certifications:

ISO 9001 : 2008, N°QUAL/2007/28312
ISO 14001 : 2004, N°ENV/2007/28315
OHSAS 18001 : 2007, N°SMS/2007/28316

AFAQ 1000NR (means millennium):

Evaluation of companies' state of advancement in sustainable development. ARMOR, 1st company to reach "Exemplary" level.

