

AXR® 7+

**SUPER PREMIUM - RESIN
FOR FLAT HEAD**

HEAT SENSITIVE THERMAL TRANSFER RIBBONS

AXR® 7+ is dedicated to applications requiring a perfect printing quality and excellent mechanical resistances.

The ink provides excellent printing quality of all types of barcodes, very small text, large characters and logos, at a blackness up to 1.7 (ODR).

The ribbon structure allows printing on many kinds of synthetics (PVC, PET, PE, PP), on various matt and high gloss coated papers and even on some uncoated papers.

The printed image offers an excellent smudge and scratch resistance and good heat resistance, up to 180°C.

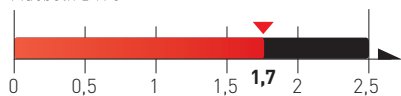
Those characteristics remain at speeds up to 250 mm/s (10 ips) and with 200, 300 and 600 DPI printheads, making this ribbon perfectly suited to the labeling market, and allowing its use in the flexible packaging printing market.

AXR® 7+ grade features ARMOR's outstanding backcoat technology, ensuring excellent printhead protection, preventing clogging and static build-up.

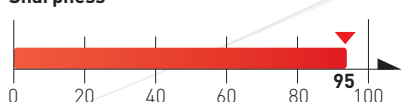
- ▶ **EXCELLENT PRINTING QUALITY, SENSITIVITY AND RECEPTOR MULTI-COMPATIBILITY**
- ▶ **EXCELLENT RESISTANCE TO SMUDGE AND SCRATCH**
- ▶ **GOOD RESISTANCE TO HIGH TEMPERATURE**

PRINTING QUALITY

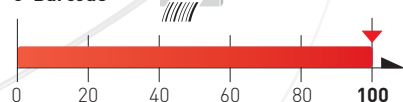
Blackness
Macbeth D19C



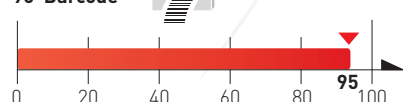
Sharpness



0°Barcode

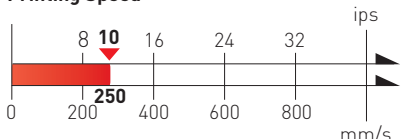


90°Barcode

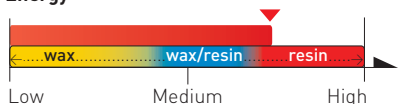


SENSITIVITY

Printing Speed



Energy



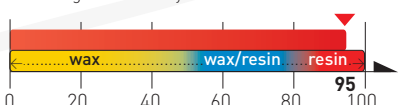
Receptor Compatibility

| | |
|-------------------|-----|
| Uncoated papers | — |
| Coated papers | ■ |
| High gloss papers | ■ ■ |
| Synthetics | ■ ■ |

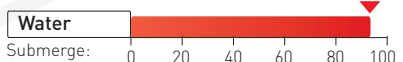
RESISTANCES

Mechanical Resistances

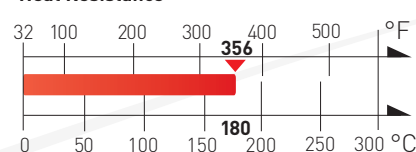
Crockmeter, 680 g/cm², no damage after 200 cycles.



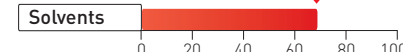
Other Resistances



Heat Resistance



Solvents



| | |
|---|-----|
| Rubtester: 939g, no damage after ... cycles : | |
| IPA: | 120 |
| Mineral Spirit: | 60 |
| Motor oil: | 250 |
| Ethanol: | 25 |
| Unleaded gasoline 98: | nr* |
| Brake fluid: | nr* |

* not recommended

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

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THERMAL TRANSFER RIBBONS

COLOR RANGE

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



Black



White



Dark Blue
(286 C)



Dark Red
(485 C)



Light Green
(Green C)

EXAMPLES OF APPLICATION FIELDS

The characteristics of AXR® 7+ 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



Retail labeling



Rating plates



Care labels



Signage & Logos



Laboratory



Healthcare



Tags



Food contact



Livestock



Outdoor applications



Conveyor sorting



Chemical drums



Automotive

CERTIFICATIONS AND APPROVALS

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

UL Approved: Legibility and durability of the printed label.

BS 5609: The printed ink withstands immersion in seawater.

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.

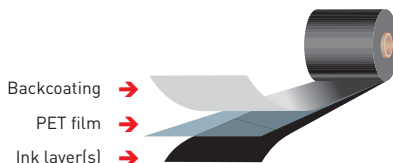
REACH: As a European manufacturer, ARMOR is completely fulfilling REACH requirements. Our ribbons are free from the Substances of Very High Concern (SVHC).

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: $> 300 \text{ N/mm}^2(\text{MD})$.

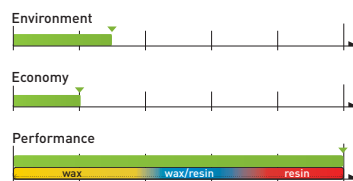
Ink:
Resin.
Melting point: 80°C
(ARMOR procedure).

Ribbon:
Thickness (black): $< 9 \mu\text{m}$.
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 AXR® 7+:

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.

ARMOR
MAKING THERMAL TRANSFER EASIER