

# AXR®9

**SUPER PREMIUM - RESIN  
FOR FLAT HEAD**

WAX  
THERMAL TRANSFER RIBBONS

AXR®9 has been especially developed to satisfy the requirements of the textile printing market.

The ink provides excellent print quality of very small text, large characters, logos and all types of barcodes, at a blackness up to 1.2 (ODR).

The ribbon structure allows printing on most of textile labels present on the market in various materials such as nylon, polyester, acetate...

The printed image offers an excellent resistance to washing (home, industrial, bleach), to dry cleaning and to ironing.

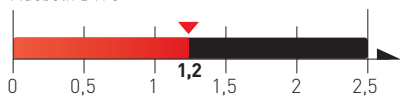
Those characteristics remain at speeds up to 200 mm/s (8 ips) and with 200, 300 and 600 DPI printheads.

AXR®9 grade features ARMOR's outstanding backcoat technology, ensuring excellent printhead protection, preventing clogging and static build-up.

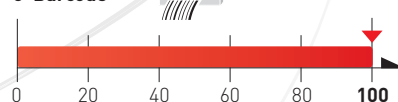
- ▶ **EXCELLENT PRINTING QUALITY ON TEXTILE MATERIALS**
- ▶ **EXCELLENT RESISTANCE TO WASHES AND DRY CLEANING**
- ▶ **VERY GOOD RESISTANCE TO IRONING**

## PRINTING QUALITY

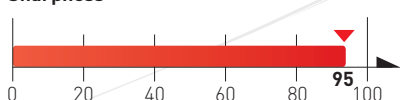
**Blackness**  
Macbeth D19C



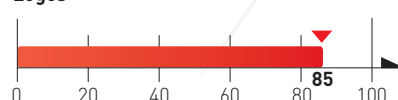
**0°Barcode**



**Sharpness**

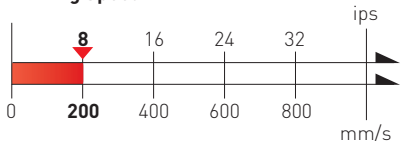


**Logos**

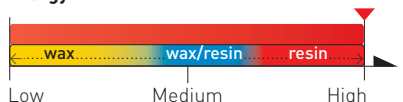


## SENSITIVITY

**Printing Speed**



**Energy**



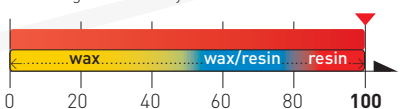
**Receptor Compatibility**

|            |     |
|------------|-----|
| Cotton     | ■ ■ |
| Acetate    | ■ ■ |
| Polyester  | ■ ■ |
| Synthetics | ■ ■ |

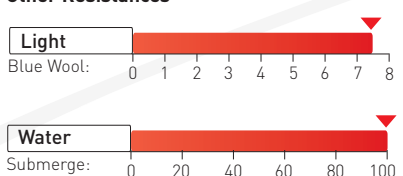
## RESISTANCES

**Mechanical Resistances**

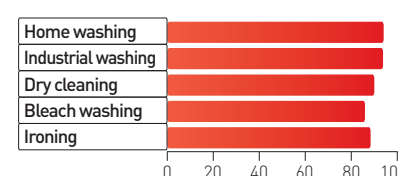
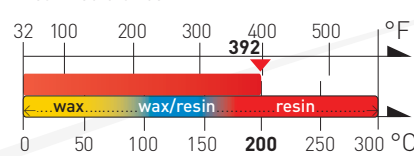
Crockmeter, 680 g/cm², no damage after 200 cycles.



**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



Black

## EXAMPLES OF APPLICATION FIELDS

The characteristics of AXR® 9 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



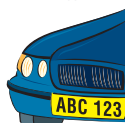
Retail labeling



Rating plates



Care labels



Signage & Logos



Laboratory



Healthcare



Tags



Food contact



Livestock



Outdoor applications



Conveyor sorting



Chemical drums



Automotive

## CERTIFICATIONS AND APPROVALS

**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.

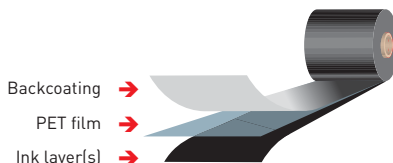
**REACH:** As a European manufacturer, ARMOR is completely fulfilling REACH requirements. Our ribbons are free from the Substances of Very High Concern (SVHC).

**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  $\mu\text{m}$ .  
Tearing resistance:  $> 300 \text{ N/mm}^2(\text{MD})$ .

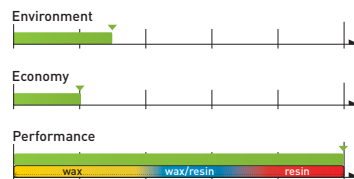
**Ink:**  
Resin.  
Melting point: 85°C  
(ARMOR procedure).

**Ribbon:**  
Thickness (black):  $< 8 \mu\text{m}$ .  
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®9:

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, 1<sup>st</sup> company to reach "Exemplary" level.

