

# APR<sup>®</sup> 600

PREMIUM - WAX/RESIN  
FOR CORNER EDGE & NEAR EDGE

THERMAL TRANSFER RIBBONS

APR<sup>®</sup> 600 combines a multi receptor compatibility with good level of performance. This high versatility allows it to fulfill the requirements of many applications.

The ink provides excellent printing quality of all types of barcodes, very small text, large characters, and logos, at a blackness up to 2.2 (ODR).

The ribbon structure allows printing on various kinds of receptors, such as uncoated and coated papers, and synthetics. The printed image offers a good level of smudge resistance and heat resistance up to 100°C.

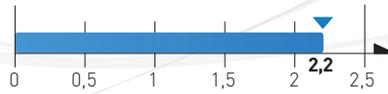
Those characteristics remain at speeds up to 600 mm/s (24 ips) and with 200, 300 and 600 DPI printheads, making this ribbon perfectly adapted either to the labelling market or the flexible packaging printing market.

APR<sup>®</sup> 600 grade features ARMOR's outstanding backcoat technology, ensuring excellent printhead protection, preventing clogging and static build-up.

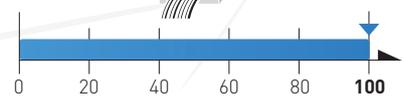
- ▶ EXCELLENT SENSITIVITY AND RECEPTOR MULTI-COMPATIBILITY
- ▶ VERY GOOD PRINTING QUALITY AT HIGH SPEED AND SHARPNESS OF 90° BARCODES
- ▶ VERY HIGH RESISTANCE TO SMUDGE

## PRINTING QUALITY

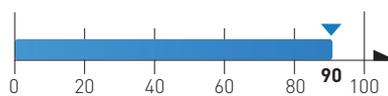
**Blackness**  
Macbeth D19C



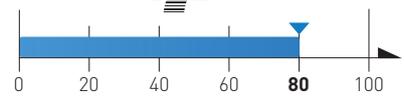
**0°Barcode**



**Sharpness**

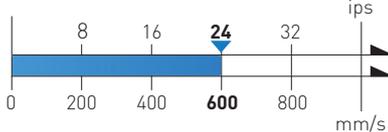


**90°Barcode**



## SENSITIVITY

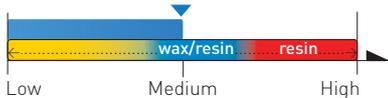
**Printing Speed**



**Receptor Compatibility**

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

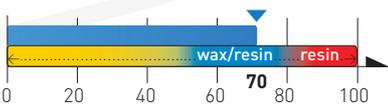
**Energy**



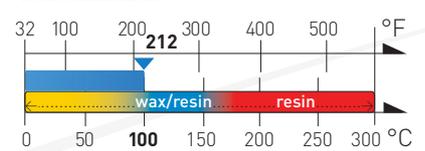
## RESISTANCES

**Mechanical Resistances**

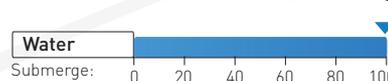
Crockmeter, 680 g/cm<sup>2</sup>, printout still visible after 200 cycles.



**Heat Resistance**



**Other Resistances**



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

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## 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



Blue  
(Reflex Blue C)



Orange  
(151 C)



Light Red  
(1788 C)



Brown  
(484 C)



Light Green  
(Green C)



Cyan



Magenta



Yellow

From APX<sup>®</sup> range, with better scratch resistance :



Metallic White  
(877C)

## EXAMPLES OF APPLICATION FIELDS

The characteristics of APR<sup>®</sup> 600 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.

**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.

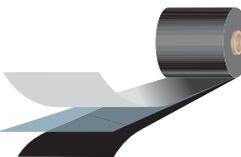
Contact us for all other regulations linked to product compliance with toxicity, treatment of wastes, banned components, packaging, etc.

## RIBBON SPECIFICATIONS

Backcoating →

PET film →

Ink layer(s) →



**Backcoating:**

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

**PET film:**

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

**Ink:**

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

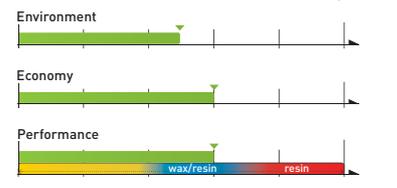
**Ribbon:**

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 APR<sup>®</sup>600:

To be compared with our other products.



The film is produced in one of the industry's most organised 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



**AF AQ 1000NR (means millennium):**

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

