

# APR<sup>®</sup> 5

PREMIUM - WAX/RESIN  
FOR FLAT HEAD

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



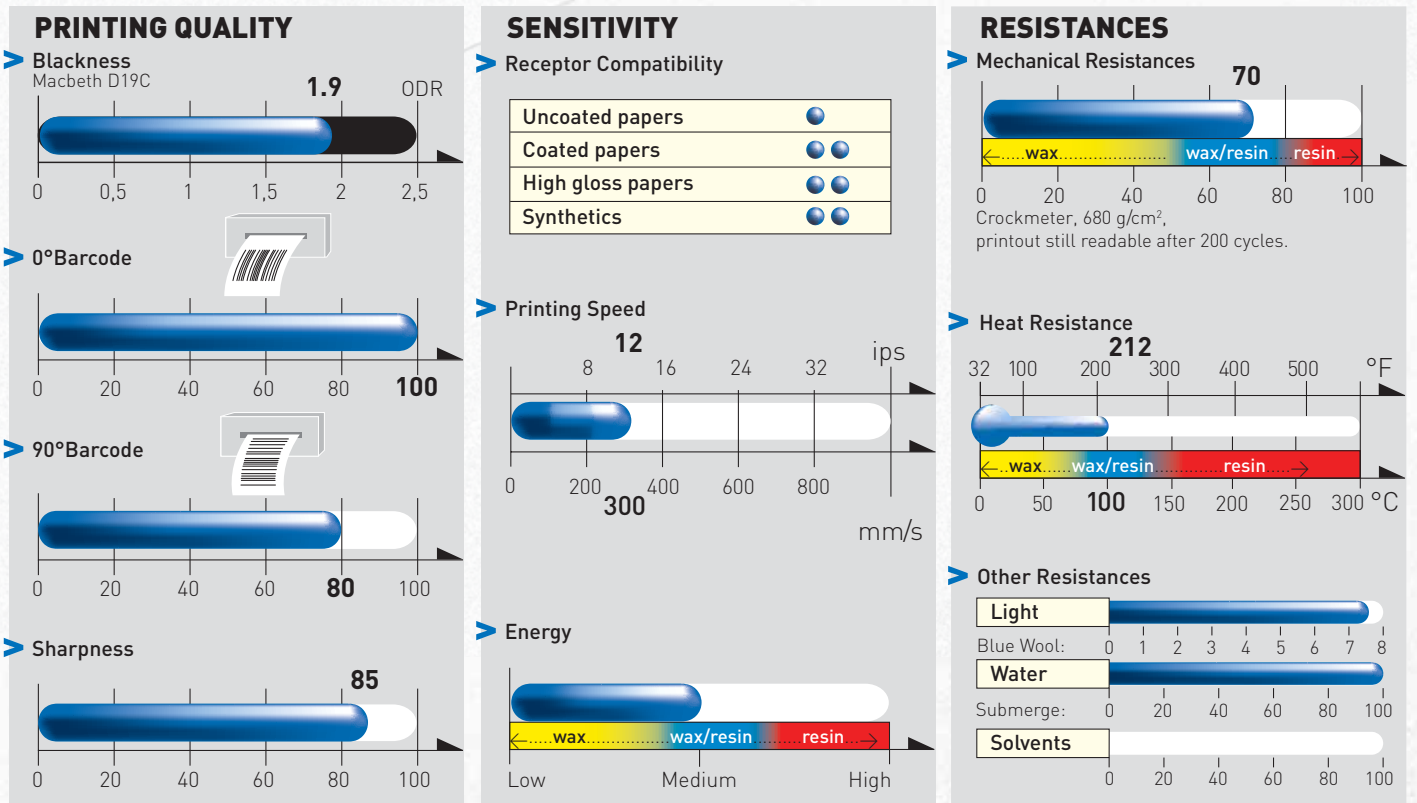
APR<sup>®</sup>5 combines a multi receptor compatibility with good level of performance. This high versatility allows it to fulfill the requirements of many applications.

The ink provides excellent printing quality for all types of barcodes, very small text, large characters and logos, at a blackness above 1.9 (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 (212°F).

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 either to the labelling market or the flexible packaging printing market.

APR<sup>®</sup> 5 features ARMOR's outstanding backcoat technology, ensuring excellent printhead protection, preventing clogging and static build-up. The ribbon has been designed to create a very low level of noise while being printed.



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

470	6	500+	503	<b>5</b>	7+	8	9
AWR <sup>®</sup>		AWX <sup>®</sup>	APR <sup>®</sup>		AXR <sup>®</sup>		
WAX			WAX/RESIN		RESIN		
F L A T H E A D R A N G E							

All ARMOR product sheets are available on our website [www.armor-group.com](http://www.armor-group.com)

## EXAMPLES OF APPLICATION FIELDS

The characteristics of APR<sup>®</sup> 5 answer the requirements of the following application fields :



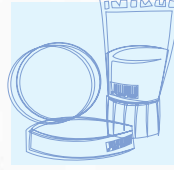
Inventory



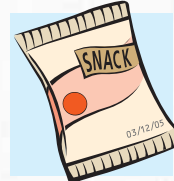
Shipping



Pharmaceutical



Cosmetics



Flexible Packaging



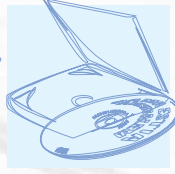
Flexible Packaging for frozen applications



Flexible Packaging for hot processes



Rating plates



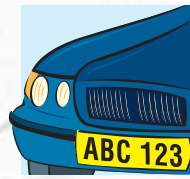
CDs



Retail Labeling



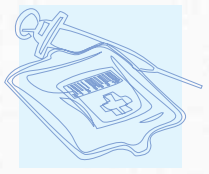
Care labels



Signage & Logos



laboratory



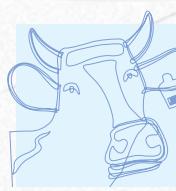
Healthcare



Tags



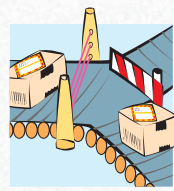
Food contact



Livestock



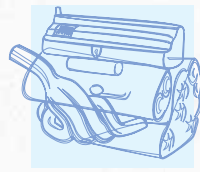
Outdoor applications



Conveyor sorting



Chemical drums



Automotive

If your application is not among the ones above, please contact us.

### 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: 75°C (167°F)  
(ARMOR procedure)

#### Ribbon:

Thickness (black):  $< 10 \mu\text{m}$   
The ribbon is anti static build up treated.  
Storage: 12 months, 5-35°C (40-95°F),  
20-80 % Humidity Rate

### CERTIFICATIONS AND APPROVALS



UL Approved - Legibility and durability of the printed label

**Heavy metals:** EC 98/638.

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

**Ames test:** the ribbon is not mutagenic, does not cause DNA modifications.

**TSCA/CP 65:** the ribbon does not contain any of the substances on these list.

**EC Directives:** 1999/45/EC and 2001/59/EC.  
The ribbon does not contain any substance classified as dangerous for health. 1935/2004/EC: food contact.

For other standards, please contact us.



ARMOR has the following certifications:  
ISO 9001 : 2000, N°QUAL/2007/28312  
ISO 14001 : 2004, N°ENV/2007/28315  
OHSAS 18001 : 1999, N°SMS/2007/28316

### COLOR RANGE



black



white



dark blue  
(286 C)



dark red  
(485 C)



dark green  
(554 C)



grey  
(5425 C)



blue  
(Reflex blue C)



light red  
(1788 C)



light green  
(Green C)



brown  
(463 C)

Performances exposed in this sheet are for the black ribbon