

# APX<sup>®</sup> FH

CERA/RESINA - PREMIUM EXTRA  
PER TESTINE FLAT HEAD

THERMAL TRANSFER RIBBONS

APX<sup>®</sup> FH è una cera/resina premium di ultima generazione con una compatibilità ricettori molteplice e un ottimo livello di performance.

Stampa su un' ampia gamma di ricettori con una densità ottica di 2.1 (DOR), garantendo prestazioni di ottimo livello in generale, assicurando un' eccellente qualità di stampa di tutti i codici a barre, dei caratteri alfanumerici di qualsiasi dimensione e dei logotipi.

La struttura del nastro consente la stampa di carte vellum, carte patinate e materiali sintetici.

La stampa conferisce un buon livello di resistenza allo sfregamento e resistenza alla temperatura fino a 150°C.

Grazie alle sue prestazioni che rimangono invariate alle alte velocità fino a 300 mm/s (12 ips) con testine da 200, 300 e 600 DPI, questo prodotto è indicato per le esigenze di identificazione automatica.

Il rivestimento dorsale (back-coating) dell' APX<sup>®</sup> FH, frutto della ricerca ARMOR, garantisce una protezione ottimale della testina di stampa, evitando eventuali problemi d'incrostazione e di cariche elettrostatiche.

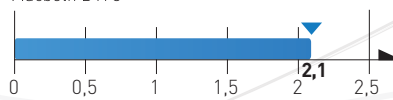
## ► POLIVALENZA DEI RICETTORI ED ELEVATA SENSIBILITÀ

## ► OTTIMA RESISTENZA ALLO SFREGAMENTO E BUONA RESISTENZA AL GRAFFIO

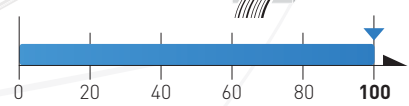
## ► OTTIMA QUALITÀ DI STAMPA AD ALTA VELOCITÀ

### ► QUALITÀ DI STAMPA

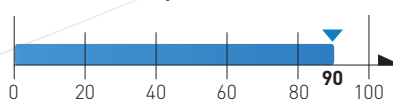
Densità ottica  
Macbeth D19C



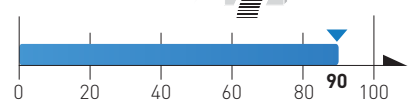
Codici a barre



Nitidezza di stampa

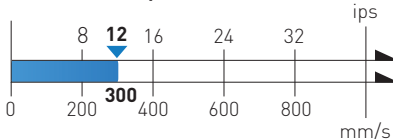


Codici a barre ruotati



### ► SENSIBILITÀ

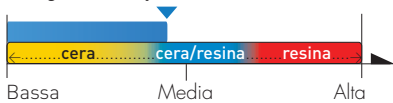
Velocità di stampa



Compatibilità

Carte vellum	<input checked="" type="checkbox"/>
Carte patinate	<input checked="" type="checkbox"/>
Carte lucide	<input checked="" type="checkbox"/>
Ricettori sintetici	<input checked="" type="checkbox"/>

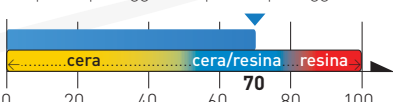
Energia di stampa



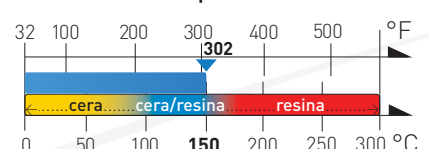
### ► RESISTENZA

Resistenza Meccanica

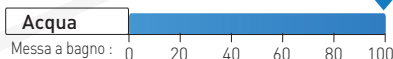
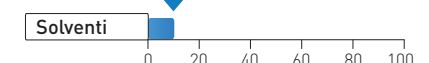
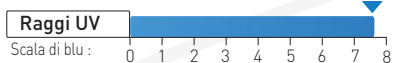
Crockmeter, 680 g/cm<sup>2</sup>,  
stampa sempre leggibile dopo 200 passaggi.



Resistenza alla temperatura



Altre resistenze



Performance valutate con stampante, parametri di stampa e ricettori adatti.

# APX<sup>®</sup> FH

CERA/RESINA - PREMIUM EXTRA  
PER TESTINE FLAT HEAD

THERMAL TRANSFER RIBBONS

## GAMMA COLORI

For colour ribbons, please look to the APR<sup>®</sup> or AXR<sup>®</sup> ranges with similar performances.



Nero

## ESEMPI DI AREE DI APPLICAZIONI

Le prestazioni dell'APX<sup>®</sup> FH rispondono alle esigenze dei seguenti settori :

(Per altre applicazioni, contattateci.)



Stockage



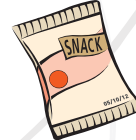
Expédition



Pharmaceutique



Cosmétique



Film d'emballage



Film d'emballage pour surgelés



Film d'emballage pour conditionnement à chaud



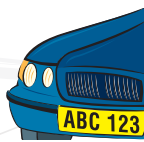
Distribution



Plaques d'identification



Etiquettes de conteneur



Signalisation & Logos



Laboratoire



Santé



Cartonnettes (Tags)



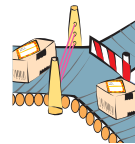
Contact alimentaire



Elevage



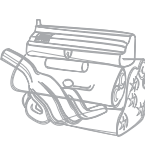
Applications Extérieures



Tri & Convoyage



Barils chimiques



Industrie automobile

## CERTIFICAZIONI & OMOLOGAZIONI

**Contatto con gli alimenti :** Questo nastro è conforme con la Direttiva Europea 1935/2004/CE.

**Metalli pesanti :** Il nastro è conforme con CE 95/638. Rapporti SGS disponibili su richiesta.

**RoHS/WEEE :** Direttive CE 2002/95 e 2002/96, conformità con le limitazioni delle sostanze pericolose nelle attrezzature elettriche ed elettroniche.

**REACH :** Come produttore europeo, ARMOR soddisfa totalmente i requisiti REACH. I nostri nastri sono privi di sostanze estremamente preoccupanti (SVHC).

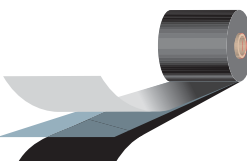
**TSCA :** Il nastro non contiene alcuna sostanza presente in tale lista.

**CP65 :** Il nastro è privo delle sostanze elencate, fatta eccezione il nerofumo.

Vogliate contattarci per quanto riguarda ogni altra direttiva correlata alla conformità del prodotto in merito a tossicità, trattamento dei rifiuti, componenti vietati, imballaggio, ecc.

## SPECIFICHE DEL NASTRO

Backcoating →  
Film PET →  
Stratofil d'inchiostro →



**Backcoating :**  
A base di silicone.  
Coefficiente di frizione :  $K_d < 0.2$ .

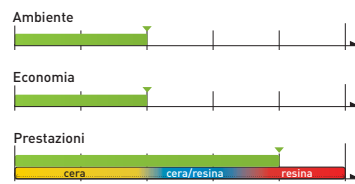
**Film PET :**  
Spessore : 4,5  $\mu\text{m}$   
Resistenza alla rottura :  $> 300 \text{ N/mm}^2$  (MD).

**Inchiostro :**  
Cera/Resina.  
Punto di fusione : 85°C  
(procedure ARMOR).

**Nastro :**  
Spessore (nero) :  $< 9 \mu\text{m}$ .  
Il nastro è trattato anti-statico.  
Stoccaggio : 12 mesi, 5-35°C,  
20-80 % di umidità.

## SVILUPPO SOSTENIBILE

ARMOR valutazione dell'APX<sup>®</sup> FH : Paragone con altri nostri prodotti.



Il film viene prodotto in uno degli stabilimenti più organizzati e premiati del settore :

### DECAPLAN :

Piano d'azione di sviluppo sostenibile basato su 10 argomenti principali che coinvolgono tutti i profili, le azioni e la strategia dell'azienda.



### Global Compact :

Iniziativa delle Nazioni Unite che invita le aziende ad applicare i fondamentali valori etici e ambientali.



### Responsible Care :

Il programma della International Council of Chemical Associations ha come obiettivo miglioramenti costanti in termini di salute, sicurezza e ambiente.



### Certificazioni qualità, salute, sicurezza e ambiente :

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



### AF AQ 1000NR (significa millennio) :

Valutazione dello stato di avanzamento delle aziende in termini di sviluppo sostenibile. ARMOR, la Prima azienda a raggiungere il livello di "Esemplarità".



# APX<sup>®</sup>FH

PREMIUM EXTRA - WAX/RESIN  
FOR FLAT HEAD

THERMAL TRANSFER RIBBONS

APX<sup>®</sup>FH is a new generation high performance wax/resin ribbon combining multi-receptor compatibility with outstanding performance.

The ink provides excellent printing quality for all types of barcodes, very small text, large characters and logos, at a blackness up to 2.1 (ODR).

The ribbon structure allows printing on a wide range of receptors, from coated papers to synthetics.

The printed image offers very high smudge and scratch resistance combined with heat resistance up to 150°C.

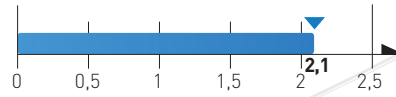
Those characteristics remain at speeds up to 300 mm/s (12 ips), and with 200, 300 and 600 DPI printheads, making this ribbon perfectly adapted to the labelling market.

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

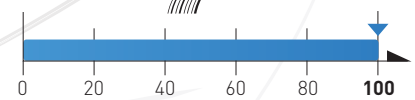
- ▶ VERY HIGH RESISTANCE TO SMUDGE AND SCRATCH
- ▶ EXCELLENT SENSITIVITY AND RECEPTOR MULTI-COMPATIBILITY
- ▶ VERY GOOD PRINTING QUALITY AT HIGH SPEED

## PRINTING QUALITY

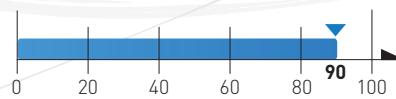
**Blackness**  
Macbeth D19C



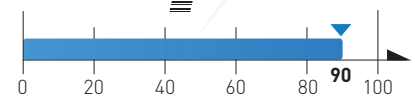
**0°Barcode**



**Sharpness**

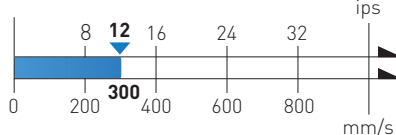


**90°Barcode**

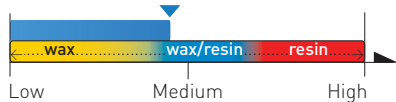


## SENSITIVITY

**Printing Speed**



**Energy**



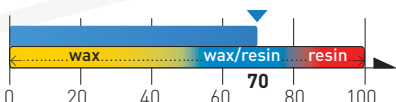
**Receptor Compatibility**

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

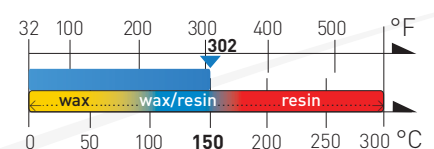
## RESISTANCES

**Mechanical Resistances**

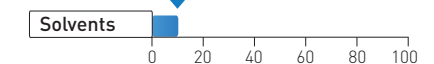
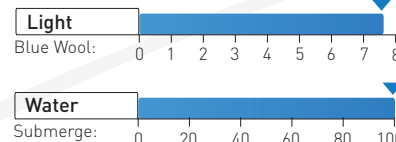
Crockmeter, 680 g/cm<sup>2</sup>,  
printout still visible after 200 cycles.



**Heat Resistance**



**Other Resistances**



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

## COLOUR RANGE

For colour ribbons please refer to the APR<sup>®</sup> or AXR<sup>®</sup> ranges with similar performances.



Black

## EXAMPLES OF APPLICATION FIELDS

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



Inventory



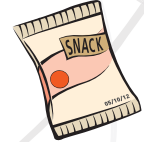
Shipping



Pharmaceutical



Cosmetics



Flexible Packaging



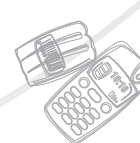
Flexible Packaging for frozen applications



Flexible Packaging for hot processes



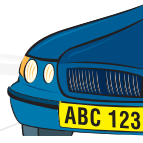
Retail labeling



Rating plates



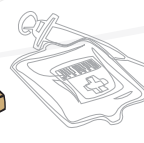
Care labels



Signage & Logos



Laboratory



Healthcare



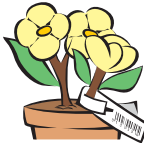
Tags



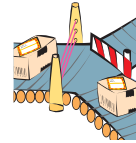
Food contact



Livestock



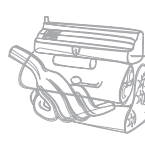
Outdoor applications



Conveyor sorting



Chemical drums



Automotive

## CERTIFICATIONS AND APPROVALS

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

**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).

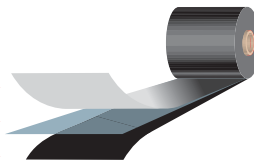
**TSCA:** The ribbon does not contain any substance of this list.

**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 →  
PET film →  
Ink layer(s) →



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

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

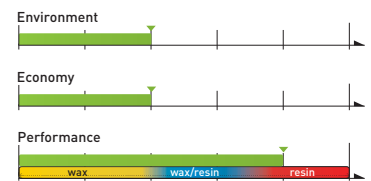
**Ink:**  
Wax/Resin.  
Melting point: 85°C  
(ARMOR procedure).

**Ribbon:**  
Thickness (black):  $\leq 9 \mu\text{m}$ .  
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 APX<sup>®</sup>FH:

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

**AFAQ 1000NR (means millennium):**  
Evaluation of companies' state of advancement in sustainable development. ARMOR, 1<sup>st</sup> company to reach "Exemplary" level.

