

# CX2020 W/R

PREMIUM WAX/RESIN RIBBON

- THERMAL TRANSFER
- FLAT-HEAD
- PREMIUM WAX-RESIN

## PRODUCT OVERVIEW

CX2020 is a premium wax/resin ribbon developed for applications requiring superior print durability, high definition, and excellent substrate versatility. Compared to standard wax/resin ribbons, it delivers enhanced resistance to abrasion, improved print sharpness, and consistently high print quality across a wide range of materials.

Its advanced formulation enables reliable performance even in demanding environments, making CX2020 an ideal solution for industrial and high-performance labeling applications.

## COMPATIBLE MATERIALS

CX2020 offers superior substrate compatibility:

- Coated paper (high-gloss, semi-gloss)
- Uncoated paper (vellum, standard paper)
- Synthetic paper
- Film labels (PP, PET, PE, BOPP, PVC)

## DURABILITY & RESISTANCE

- Excellent scratch resistance (up to ~500 cycles)
- High smudge resistance during handling and transport
- Strong resistance to chemicals such as alcohol and oils
- Maintains print integrity under demanding conditions
- Resistant to water exposure and low temperatures

## TYPICAL APPLICATIONS

- Industrial and automotive labeling
- Logistics and warehouse labeling
- Chemical and pharmaceutical applications
- Electronics and component labeling
- Retail and packaging labels
- Textile and garment tags
- Asset and production tracking

## KEY FEATURES

- Premium wax/resin formulation for enhanced durability
- Excellent scratch and smudge resistance
- High-definition printing for fine text and detailed graphics
- Strong adhesion on paper and synthetic materials
- High sensitivity for efficient printing at lower energy levels
- Stable performance at high printing speeds
- Extended printhead life thanks to optimized backcoating

## PRINT PERFORMANCE

- CX2020 delivers superior print results across all applications:
- High optical density (~2.1 ODR) for deep black output
- Excellent sharpness for barcodes and fine lines
- High readability in both 0° and 90° barcode orientations
- Precise printing of small characters (down to 4 pt)
- Outstanding performance for graphics and complex label designs
- Designed for medium printing energy with high sensitivity
- Supports high-speed printing up to 203 mm/s (8 ips)
- Ensures stable output across different printer platforms

## TECHNICAL SPECIFICATIONS

|                        |                        |
|------------------------|------------------------|
| Ink color              | Black                  |
| Optical density        | approx. 2.1 ODR        |
| PET film thickness     | 4.5 um                 |
| Total ribbon thickness | approx. 8.2 um         |
| Melting point          | approx. 80C            |
| Printing speed         | up to 203 mm/s (8 IPS) |
| Printing energy        | Medium                 |
| Temperature            | 5C - 35C               |
| Humidity               | 20% - 80% RH           |
| Shelf life             | 12 months              |

## COMPLIANCE & CERTIFICATIONS

- RoHS compliant
- REACH compliant
- ISO certified production
- MSDS available
- ISEGA (food contact compliant)
- Halogen-free

