



FTI-HX Ribbon

Thermal Transfer Ribbon Specifications

TECHNICAL DATA SHEET

Revision Number. 1
Last Edited 5. januar 2024



FTI-HX ribbon is a Ultra-durable Performance speciality resin ribbon for thermal transfer printers that produces the ultimate in print performance. The print image has excellent chemical resistance, scratch resistance for most demanding applications. Recommended label stocks TPE-E, polypropylene, polyester, Polyimide.

For use on a wide range of identification products. Ideal for use in environments where the marker may come into direct contact with solvent or chemical.

- * Excellent Scratch resistance
- * Excellent Smudge resistance
- * Excellent Solvent Resistance
- * Military Application
- * Aerospace Applications
- * Mass Transit Applications

Can be used for applications requiring resistance to high temperature Print performance and immersion into fluids like pentosin (Brake oil).

Industry



Industry



Marine



Wind power



Commercial



Aerospace



Construction



Railway



Military



Electrical installations



Petrochemical



Telecom

STANDARD COLOR



MATERIAL SUBSTRATE

Polyester

INK TYPE

Premium Resin

MELTING POINT

120°C (248°F)

HEAT RESISTANCE

Minimum 150°C

SMUDGE & SCRATCH RESISTANCE

Superior

RESISTANCE TO SOLVENTS

Superior Resistant against solvents and chemicals

ROHS COMPLIANT

Yes

APPLICABLE PRINTERS

CAB - EOS - SQUIX

HALOGEN FREE

Yes

THERMAL PRINTING ENERGY

Medium

DIMENSIONS

105mm x 300Meter

4 INCHES X (984 FEET)

WINDING DIRECTION

InkSideOut "CSO"

STORAGE

Do not store in direct sunlight. From date of manufacture 1 year. Cool and dry in original packaging. Recommended temperature.

-5°C (23°F) and 40°C (104°F) is the most critical temperatures it can be stored under. Prolonged storage at higher temperatures and / or higher humidity will shorten shelf life.

APPLICATIONS

Developed to be used in **Aerospace, Military, Defence, Mass Transit** and can be used also in the normal Industry, Wind Power, Commercial, Construction, Electrical and Telecom installations, wire & cabling for cable and wire marking products.

Ordering Info Ribbbon Inkside Out

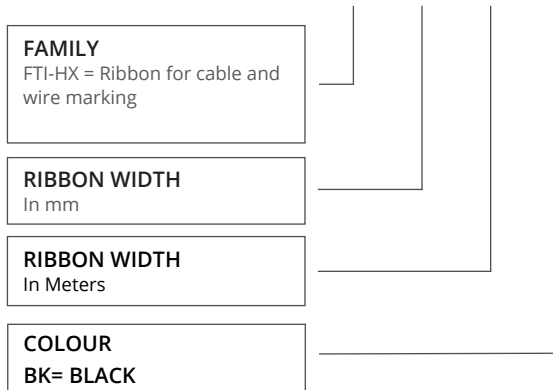
PART NUMBER	TYPE	W X L RIBBON	MATERIAL	QTY-PCS	Colour	UOM	Winding Direction	Inner Core Diameter
FTI-HX-CSO-105x300-BK	Ribbon	105mm x 300 Meter (4 inches x 984 Feet)	Premium Resin	1	Black	Roll	Inkside out - CSO	25.4mm (1inch)
FTI-HX-CSO-053x300-BK	Ribbon	53mm x 300 Meter (2,08 inches x 984 Feet)	Premium Resin	1	Black	Roll	Inkside out - CSO	25.4mm (1inch)

Ordering Info - Part Number Example

PART NUMBER EXAMPLES - FTI-HX-105x300-BK

Product code

FTI-HX- - 105 - 300 - BK

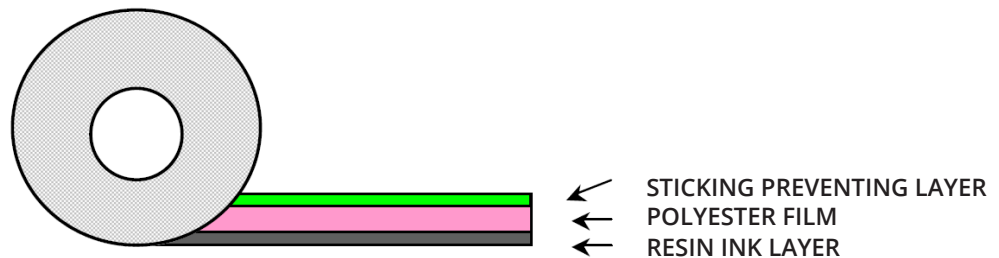


Properties - Performance



Heat Resistance* up to 240 dgc (tested with polyester)

Drawing - Ribbon Inkside Out



THICKNESS OF RIBBON	μm	6,6
THICKNESS OF POLYESTER FILM	μm	4,5
INK THICKNESS	μm	1,6
MELTING POINT	dgc	120
PRINT DENSITY		1,9

General Values for Thermal transfer Ribbon

INK PHYSICAL

PROPERTIES	TEST METHOD	TYPICAL VALUE
Coating Weight	1,8 g/m ²
Type of ink	Premium Resin
Sensitivity of Ink	Middle-Medium

INK THERMAL

PROPERTIES	TEST METHOD	TYPICAL VALUE
Temperature Melting Point	-120° C (-248°F)

SUBSTRATE PHYSICAL

PROPERTIES	TEST METHOD	TYPICAL VALUE
Material	Polyester
Thickness total	6,6 µm
Print Density	1,9
Base Film Thickness	4,5 µm

SUBSTRATE THERMAL

PROPERTIES	TEST METHOD	TYPICAL VALUE
Temperature melting point	120 ° C<

IMAGE STABILITY

PROPERTIES	TEST METHOD	TYPICAL VALUE
Heat resistance	130 °C for 312 hours -
Scratch resistance	Superior
Smudge resistance	Superior
Solvent resistance	Superior