



Labels that Last

T84/T85 Resin Ribbon*

Description: This anti-static, halogen-free ribbon is ultra-durable, providing excellent smudge-, scratch-, and solvent-resistance. Featuring high-heat resistance, it's ideal for long-term labeling requirements and eliminates the need for over-laminates in most applications. Provides transferability to polyester films, vinyl, and synthetic materials, including polyimide and PVC cards.

UL Recognized: File MH27790 when used to print EIM #322 Silver Polyester, #366 White Polyester, #444 Silver Polyester, and #475 Clear Polyester.

Recommended Applications: Extreme environmental labels, warning labels, chemical drum labeling, outdoor applications, automotive (under the hood) labeling, rating plates, printed circuit board labels, ID cards, electronic components, bin marking

Recommended Media: Polyester substrates

**Product designations represent the same formula and are solely used to indicate ribbons wound face out or wound face in.*

Ribbon Properties

Description	Specification
Ink Formula	Resin
Color	Black, Red, Blue, Green, White, and Silver
Base Film Thickness (μm)	4.8 Microns
Ink Melting Point	331°F to 334°F (166°C to 168°C)
Solvent Resistance	High
Abrasion Resistance	High

Test Method	Zebra Printer (varied energy from 1 to 28, Code 39, 2:6 ratio, picket fence and rotated, printed 2" to 6" per second)		
Print Density	> 1.9		
Ribbon Tested for:	Parameter	Measurement Device	Result
Abrasion Resistance	50 cycles at 500 grams with cotton cloth	Autoscan II	ANSI A ¹ (Excellent 100)
Heat Resistance	Fabric applied to PET sample, pressed with Heat for 3 sec at 3.5KG/cm ³	Autoscan II	ANSI A ¹ (>220°C)
Chemical Resistance	Soak material in chemical, load bar to 248 on crockmeter, rub bar over barcode	Autoscan II	ANSI A ¹ (IPA Excellent >1000, Kerosene Excellent 400, Brake Fluid Excellent 300, Gasoline Excellent 100)

¹ Represents the American National Standards Institute (ANSI) grade measured at the given conditions.

Grade levels are A, B, C, D, and F. A is excellent, B is above average, C is average, D is below average, and F is poor.

	Service Temperature	Humidity	Warranty (finished roll)
Recommended Storage Conditions	40°F to 95°F (5°C to 35°C)	50% RH	One Year under the following storage conditions

Keep indoors and avoid high temperatures, high humidity, and direct sunlight.