



Labels that Last

T38/T39 Resin-Enhanced Wax Ribbon*

Description: This is a resin-enhanced wax ink formula that delivers dark, durable images on a wide variety of substrates—ranging from uncoated paper to mid-range synthetic films. It prints at speeds of up to 12 inches per second with excellent printhead protection. High-quality, crisp print is achieved—even on flood-coated labels thanks to its special static-dissipating characteristics. Unique back coating reduces print wear and provides smooth ribbon flow and excellent heat resistance.

UL Recognized under File MH27790 when used to print EIM #119 Silver VOID Polyester.

T38/T39 is Generally Recognized As Safe (GRAS) for use in food packaging and labeling environments; therefore conforms to the regulatory requirements defined by the US Federal Food, Drug, and Cosmetic Act 21 CFR – Indirect Food Additive.

Recommended Applications: Shipping labels, pharmaceutical labels, retail labels and tags, ingredient labels, general ticketing, shelf labels, horticulture labels, warning labels, blood bags, drum labels, polybag labels, and machine part labels.

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

Ribbon Property

Description	Specification	Measure Method
Ink Formula	Resin-Enhanced Wax	
Total Thickness (μm)	7.9 ± .5	Micrometer Scale
Base Film Thickness (μm)	4.8 ± .4	Micrometer Scale
Ink Thickness	2.8 ± .3	Micrometer Scale
Ribbon Transmission Density	> 1.2	Densitometer
Print Density	≥ 1.7	Densitometer

Durability of Printed Image

Label Stock Tested	Coated Paper		
Print Speed	6 IPS		
Print Density	1.79		
Ribbon Tested for:	Parameter	Measurement Device	Result
Smudge Resistance	25 cycles at 500 grams with cotton cloth	Colorfastness Tester	ANSI A ¹
Scratch Resistance	20 cycles at 200 grams with stainless steel pointed tip	Colorfastness Tester	ANSI A ¹

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	41°F to 185°F (5°C to 85°C)	20% RH to 85% RH	One Year under the following storage conditions

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