

R510^(HF) Ultra Durable Resin

Product Description

Halogen-free R510^(HF) is one of the toughest resin ribbons on the market. It's the only halogen-free resin ribbon capable of handling extreme environmental labeling with our unmatched scratch and solvent resistance. Designed with our standard anti-static and backcoat properties to protect the printhead, R510^(HF) has unbeatable edge definition for crisp, extremely durable, and dense barcodes for harsh environments.

Recommended Applications



Automotive



Chemical



Electronics



Health & Beauty



Inventory & Logistics



Outdoor



Pharmaceutical

Recommended Substrates

Economy Synthetics Polyesters, Polypropylene, Polyethylene
Specialty Materials Polyimide
 PVC cards
 PET cards
 Top-coated vinyl

Performance Characteristics

- ▶ Halogen-free
- ▶ Unmatched in abrasion and solvent resistance
- ▶ High density printing ensuring edge definition
- ▶ Anti-static for easy handling and extended printhead life
- ▶ DNP's specially formulated backcoating for printhead protection



for more info!

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Ribbon Properties

Description	Result	Test Method
Ink	Resin	
Color	Black	Visual
Total Thickness	7.5 ± 0.5μ	Micrometer
Base Film Thickness	4.8 ± 0.3μ	Micrometer
Ink Thickness	2.7 ± 0.2μ	Micrometer
Ink Transfer Temperature	202°C (396°F)	Heat resistance using uncoated tag

Durability of Printed Image

Label Stock: Top-coated Polyester

Print Speed: 6 IPS

Description	Result	Test Method
Print Density	> 1.90	Densitometer
Smudge Resistance	A*	Colorfastness Tester - 100 Cycles @ 500 Grams with Cotton Cloth
Scratch Resistance	A*	Colorfastness Tester - 50 Cycles @ 200 Grams with Stainless Steel Pointed Tip

*American National Standard Institute (ANSI) Grade Levels A, B, C, D, and F, where A is excellent, B is above average, C is average, D is below average, and F is poor.

Conversion Chart

Millimeters (mm) to Inches = mm ÷ 25.4	Inches to Millimeters (mm) = Inches × 25.4
Meters (m) to Feet (ft) = m × 3.2808	Feet (ft) to Meters (m) = Feet ÷ 3.2808
C° to F° = (1.8 × C°) + 32 = F°	F° to C° = (F° - 32) ÷ 1.8
Thousand square inches (MSI) to m ² = MSI × 0.645	m ² to MSI = m ² ÷ 0.645



The information on this data sheet was obtained in DNP laboratories. Measured values may vary slightly when tested in a different environment. Information contained within this document is subject to change without notification.