

VR301 Durable Metallic Color Resin

Product Description

DNP's VR301 offers the same incredible durability as our R510 Ultra Durable Resin. VR301 is available in metallic gold and silver and is the industry's toughest color resin ribbon. With DNP's unmatched scratch and solvent resistance, this ribbon is perfect for card printing applications due to its ability to handle extreme environmental conditions.

Standard Colors



Gold



Silver

Recommended Applications



Automotive



Chemicals



Electronics



Inventory & Logistics



Outdoor

Recommended Substrates

Economy Synthetics

Pretreated PET label stocks

Synthetic label stocks

PVC labels

Specialty Materials

PVC cards

PET cards

Performance Characteristics

- ▶ Abrasion Resistant
- ▶ High Density
- ▶ Printhead Protection
- ▶ SmoothCoat® Backcoat
- ▶ Solvent Resistant
- ▶ Scratch Resistant



for more info!

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Ribbon Properties

Description	Result	Test Method
Ink	Resin	
Color	Metallic gold or silver	Visual
Total Thickness	7.15 ± 0.7µ	Micrometer
Base Film Thickness	5.7 ± 0.3µ	Micrometer
Ink Thickness	1.45 ± 0.4µ	Micrometer
Ink Melting Point	70°C (158°F)	Differential Scanning Calorimeter

Durability of Printed Image

Label Stock: PET WH50 (Lintec)

Print Speed: 2 IPS

Description	Result	Test Method
Print Density	> -	Densitometer
Smudge Resistance	A*	Colorfastness Tester - 100 Cycles @ 400 Grams with Cotton Cloth
Scratch Resistance	A*	Colorfastness Tester - 50 Cycles @ 380 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 ÷ 0.03937
Meters (m) to Feet (ft) = m ÷ 0.3048	Feet (ft) to Meters (m) = Feet ÷ 3.2808
C° to F° = (1.8 X C°) + 32 = F°	F° to C° = (F° ÷ 1.8) - 17.77
Thousand square inches (MSI) to m ² = MSI X 0.645	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.