

R390 Near Edge Resin

Product Description

R390 offers the same quality resin printing as the popular R300 for near edge applications. R390 is extremely versatile on a wide variety of substrates and also prints at extremely high speeds for faster turnaround. It outperforms the competition in abrasion and solvent resistance, and contains DNP's specially formulated backcoat technology for printhead protection as well as DNP's exclusive anti-static properties for easy handling and extra printhead protection. Like all DNP ribbons, R390 is the industry leader in edge definition for clean, extremely durable, and dense bar codes.

Recommended Applications



Food & Beverage



Chemicals



Electronics



Health & Beauty



Outdoor

Recommended Substrates

Economy Synthetics

Synthetic paper
Polyethylene
Polyolefin
Polyester
Polypropylene
Valeron®
Kimdura®
Polyart®
PVC cards
Vinyl



Pharmaceutical



Automotive

Specialty Materials

Performance Characteristics

Excellent print quality at high speeds
Increased durability across a wide range of resin applications
Extensive label adaptability for expanded application options
Unbeatable edge definition for dark, dense images and improved scan rates
DNP's specially formulated backcoating for printhead protection
Anti-static for easy handling and extended printhead life

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Ribbon Properties

Description	Result	Test Method
Ink	Resin	
Color	Black	Visual
Total Thickness	6.0 ± 0.5µ	Micrometer
Base Film Thickness	4.8 ± 0.3µ	Micrometer
Ink Thickness	1.2 ± 0.2µ	Micrometer
Ink Melting Point	86°C (187°F)	Differential Scanning Calorimeter

Durability of Printed Image

Label Stock: Top-coated Polyester

Print Speed: 6 IPS

Description	Result	Test Method
Print Density	> 1.80	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 ÷ 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.