



R316

Specialty Heat Resistant Resin

Technical Data Sheet



Product Description

R316 is the industry’s best resin ribbon for printing on coated and synthetic paper substrates. It is also able to withstand environmental temperatures of up to 220° C (428° F) making it perfect for applications like heat tunnel passage. R316 uses remarkably low print energy settings while producing high quality heat resistant bar codes. This ribbon’s design incorporates DNP’s standard anti-static and backcoat properties that protect the printhead, and also prints with DNP’s unmatched edge definition producing clean, extremely durable, dense bar codes every time.

Applications



Electronics



Health & Beauty



Inventory & Logistics



Outdoor



Pharmaceutical

Recommended Substrates

Paper

- ✓ Coated paper

Synthetics

- ✓ Polypropylene
- ✓ Polyolefin
- ✓ Polyethylene

Specialty Materials

- ✓ Valeron®
- ✓ Kromekote
- ✓ Kimdura®
- ✓ Matte Kapton®
- ✓ Polyart®

Performance Characteristics

- ✓ Heat resistant up to 220°C
- ✓ Recommended for use in extreme heat conditions
- ✓ Compatible with coated and synthetic paper
- ✓ Remarkably low print energy used to create high quality harsh environment bar codes
- ✓ Anti-static for easy handling and extended printhead life
- ✓ Industry leading in edge definition for clean, durable, and dense bar codes
- ✓ DNP’s specially formulated backcoating for printhead protection

More Info



RIBBON PROPERTIES

Description	Result	Test Method
Ink	Resin	
Color	Black	Visual
Total Thickness	6.9 ± 0.9μ	Weight
Base Film Thickness	4.5 ± 0.4μ	Weight

DURABILITY OF PRINTED IMAGE

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

Label Stock: Top-coated Polyester

Print Speed: 6 IPS

*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.



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.

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