DNP Technical Data Sheet

R300 General Purpose Resin

Product Description

R300's extensive label adaptability and high print speed capability make it the most diverse resin of its kind. It outperforms the competition in abrasion and solvent resistance, uses less print energy and is designed with DNP's standard anti-static and backcoat properties to protect and extend the life of printheads. And, like all DNP ribbons, R300 is an industry leader in edge definition producing dark, dense images for improved scan rates.

Recommended Applications


Automotive


Chemicals


Electronics


Food & Beverage


Health & Beauty


Inventory & Logistics


Outdoor


Pharmaceutical

Recommended Substrates

Economy Synthetics	Polypropylene
	Vinyl
	Polyethylene
	Polyolefin
	Polyester

Performance Characteristics

- ► Heat resistant up to 170°C
- ► Excellent print quality at high speeds using less print energy
- ► Extreme durability and solvent resistance
- ► Extensive label adaptability expanding application options
- ► UL recognized/CSA approved
- ► Unbeatable edge definition for dark, dense images and improved scan rates
- ► DNP's specially formulated backcoating for printhead protection
- ► Most economical resin with DNP's unmatched abrasion resistance
- ► 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

OHSAS 18001 ISO 9001 ISO 14001 REACH COMPLIANCE RoHS2 COMPLIANT ISEGA PRODUCT SAFETY WITH LETTER AND SEAL UL

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.