

N150 PF DIRECT THERMAL

Specifications may change without notice.
Last Update: June 2025 PS-2471 (Rev.2)

PRODUCT FEATURES

N150 PF is the Phenol-free alternative to the original N150LA-2 formulation. It is a premium, top-coated direct thermal label stock designed for high-speed printing with superior image resolution and barcode reliability. Ideal for weigh scale labels, meat processing, and product identification, it offers high sensitivity, excellent image preservation, and a G25 adhesive for wide-temperature performance and permanent adhesion.

APPLICATION AREAS

- Weigh Scale Labels
- Meat Processing
- Laboratory Labels
- Product ID

FACESTOCK PROPERTIES

Basis Weight

lbs (24 x 36 x 500 sheets)	43.6 ± 4.9
g/sq m	71 ± 8

Caliper

mil	3.0 ± 0.3
µm	76 ± 7

Image Density (ODU Minimum)

1.30

Tear Strength (gf Minimum)

MD	30
CD	35

Tensile Strength (kgf/15 mm Minimum)

MD	5.4
CD	2.7

Stiffness (g-cm Minimum)

MD	3.0
CD	2.5

Initial Activation Temperature (°F / °C)

O.D. = 0.2	212°F / 100°C
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Effective Activation Temperature (°F / °C)

O.D. = 0.8	239°F / 115°C
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CERTIFICATIONS

- Indirect Food Contact
- ISO9001
- ISO14001

REGULATORY



Phenol Free



BPS Free



BPA Free



No Added PFAS

PRESERVATION PROPERTIES

Oil Resistance

Image	1.20 Minimum
Background	0.15 Maximum
Test Method	40°C, Dry, 15 Hrs, X-Rite (ODU)

Moisture Resistance

Image	1.20 Minimum
Background	0.15 Maximum
Test Method	40°C, 90% RH, 24 Hrs, X-Rite (ODU)

Heat Resistance

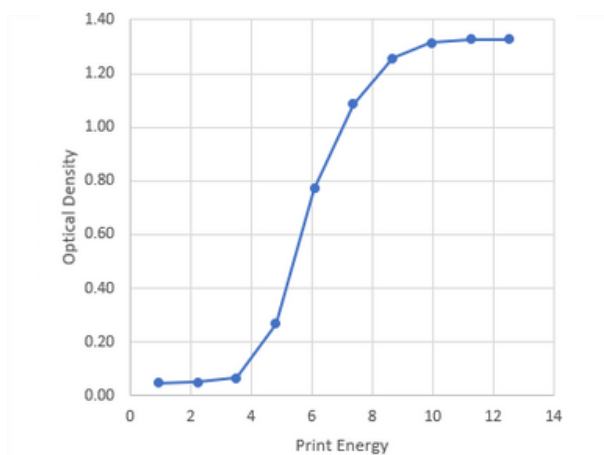
Image	1.20 Minimum
Background	0.20 Maximum
Test Method	90°C, Dry, 1 Hr, X-Rite (ODU)

Light Resistance

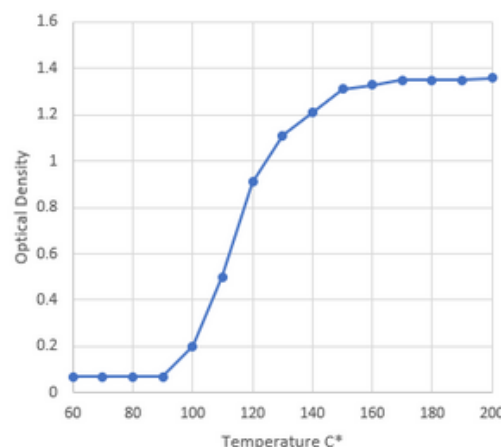
Image	1.20 Minimum
Background	0.15 Maximum
Test Method	5000 lx, 100 Hrs, X-Rite (ODU)

N150 PF DIRECT THERMAL SENSITIVITY RESULTS

DYNAMIC SENSITIVITY



STATIC SENSITIVITY



Sensitivity curves for reference only. Storage Conditions: Below 95°F (35°C) and less than 85% R.H. in a warehouse, avoiding direct sunlight. Dynamic sensitivity tests performed on Markpoint MP104.

LINER AND ADHESIVE PROPERTIES

Liner: 40 lbs (24 x 36 x 500)

Caliper: 2.4 mils $\pm$ 10% (61 $\pm$ 6 μ m)

Opacity: 65% Maximum (Photovolt)

G25 Adhesive: Wide Temperature and Permanent

LAMINATED PRODUCT PROPERTIES

Application Temperature

°F -40 to 122

°C -40 to 50

Service Temperature

°F -65 to 131

°C -54 to 55

Basis Weight (24 x 36 x 500)

lbs 95 $\pm$ 12

g/sq m 154 $\pm$ 19

Caliper

mil 5.8 $\pm$ 0.7

μ m 148 $\pm$ 19

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