

150LB PF DIRECT THERMAL

Specifications may change without notice.
Last Update: June 2025 PS-2456 (Rev.2)



PRODUCT FEATURES

The 150LB PF is a premium, phenol-free, top-coated direct thermal label stock engineered for healthcare and medical curved surface labeling. With medium sensitivity and an anti-flagging design, it ensures reliable performance on curved surfaces while preventing adhesion to disposable gloves.

APPLICATION AREAS

- Blood Vials
- Test Tubes

FACESTOCK PROPERTIES

Basis Weight

lbs (24 x 36 x 500 sheets)	44.9 ± 4.5
g/sq m	73 ± 7

Caliper

mil	3.1 ± 0.3
µm	78.5 ± 8

Image Density (ODU Minimum)

1.25

Tear Strength (gf Minimum)

MD	30.0
CD	35.0

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

Moisture Resistance

Image	1.10 Minimum
Background	0.12 Maximum
Test Method	40°C, 90% RH, 24 Hrs, X-Rite (ODU)

Heat Resistance

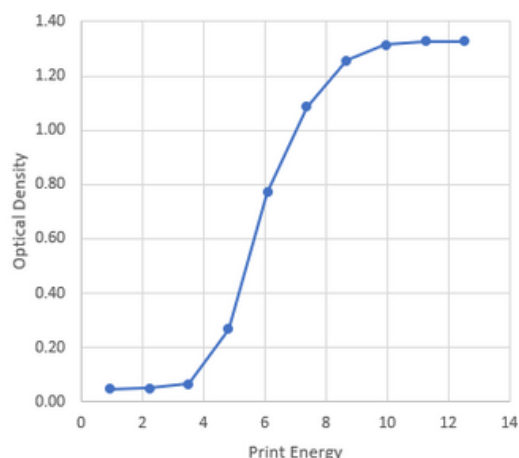
Image	1.10 Minimum
Background	0.30 Maximum
Test Method	80°C, Dry, 1 Hr, X-Rite (ODU)

Light Resistance

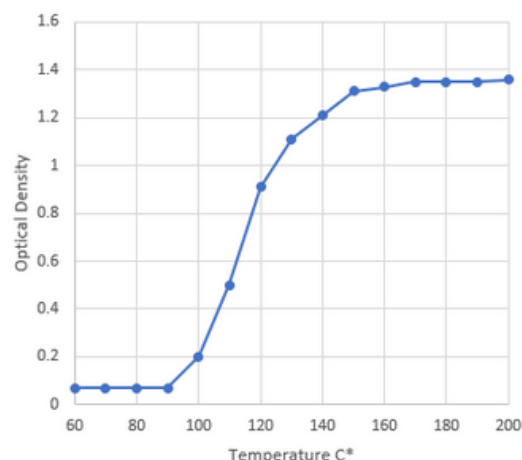
Image	1.10 Minimum
Background	0.15 Maximum
Test Method	5000 lx, 100 Hrs, X-Rite (ODU)

150LB 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)

TM: Tight Mandrel

LAMINATED PRODUCT PROPERTIES

Application Temperature

°F

35 to 122

°C

2 to 50

Service Temperature

°F

-18 to 135

°C

-28 to 57

Basis Weight (24 x 36 x 500)

lbs

93 $\pm$ 12

g/sq m

151 $\pm$ 19

Caliper

mil

5.9 $\pm$ 0.7

μ m

150 $\pm$ 18

CONTACT US

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