

150PRX PF DIRECT THERMAL

Specifications may change without notice.
Last Update: November 2025 PS-2345 (Rev.4)



PRODUCT FEATURES

150PRx PF is the phenol-free alternative to the original 150PRx formulation. It is a medium-high sensitivity direct thermal label stock engineered for prescription and laboratory labeling. It offers strong resistance to medical solutions, ensuring image durability in demanding healthcare environments.

APPLICATION AREAS

- Laboratory Labels
- Product ID

FACESTOCK PROPERTIES

Basis Weight

lbs (24 x 36 x 500 sheets)	44.9 ± 4.3
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	198°F / 92°C





Effective Activation Temperature

(°F / °C)	
O.D. = 0.8	219°F / 104°C

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

Heat Resistance

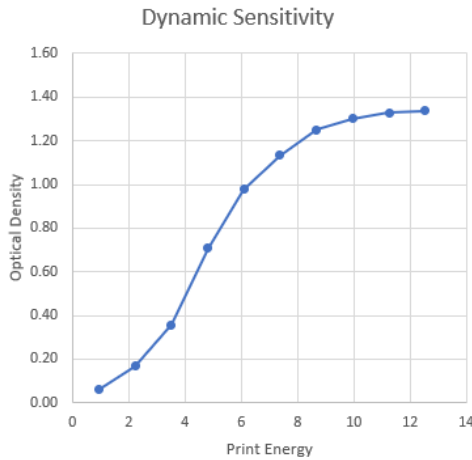
Image	1.10 Minimum
Background	0.30 Maximum
Test Method	90°C, Dry, 1 Hr, X-Rite (ODU)

Light Resistance

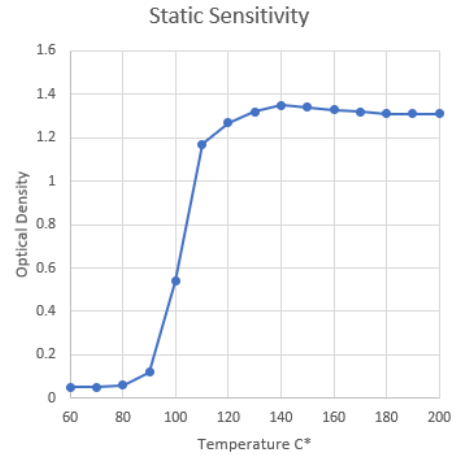
Image	1.10 Minimum
Background	0.15 Maximum
Test Method	5000 lx, 100 Hrs, X-Rite (ODU)

150PRX 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 ± 10% (61 ± 6µm)

Opacity: 65% Maximum (Photovolt)

G25 Adhesive: Wide Temperature and Permanent

G12L Adhesive: : Wide Temperature and Permanent; Repositionable

G8 Adhesive: Tight Removable

LAMINATED PRODUCT PROPERTIES

Application Temperature	G25	G12L	G8
°F	-40 to 122	-40 to 122	10 to 120
°C	-40 to 50	-40 to 50	-12 to 49
Service Temperature			
°F	-65 to 131	-65 to 131	-20 to 120
°C	-54 to 55	-54 to 55	-29 to 49
Basis Weight (24 x 36 x 500)			
lbs	97 ± 12	95 ± 11	95 ± 12
g/sq m	158 ± 19	154 ± 18	154 ± 19
Caliper			
mil	6.0 ± 0.7	5.9 ± 0.7	6.0 ± 0.7
µm	152 ± 18	150 ± 18	152 ± 18

CONTACT US

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