

150PLS-LST PF DIRECT THERMAL

Specifications may change without notice.
Last Update: March 2026 PS-2541 (Rev.1)



PRODUCT FEATURES

150PLS-LST PF is a linerless, phenol-free, direct thermal label stock with a top-coated surface, designed for weigh scale and shipping applications. This environmentally friendly solution offers high sensitivity, excellent barcode scannability, and reliable performance while reducing material waste.

APPLICATION AREAS

- Weigh Scale Labels
- Postal & Shipping Labels

ADHESIVE PROPERTIES

Shear Resistance

Unit	mm
Specification	2.00 Maximum
Test Method	1kg, 30min, 25mm x 25mm, 22°C 55%

Release Value

Unit	mN/40mm
Specification	103 Maximum
Test Method	300mm/min, 23°C 50% RH

Peel Adhesion

Unit	N/25mm
Specification	12.7 Minimum
Test Method	300mm/min, 22°C 55% RH

Application Temperature (Acrylic Emulsion Permanent Adhesive)

°F	41 to 95
°C	5 to 35

CERTIFICATIONS

- ISO9001
- ISO14001

REGULATORY



Phenol Free



BPS Free



BPA Free



No Added PFAS

PRESERVATION PROPERTIES

Water Resistance

Image	1.10 Minimum
Background	0.20 Maximum
Test Method	20°C, 15 Hrs

Humidity Resistance

Image	1.10 Minimum
Background	0.20 Maximum
Test Method	40°C, 80% RH, 10 Hrs

Heat Resistance

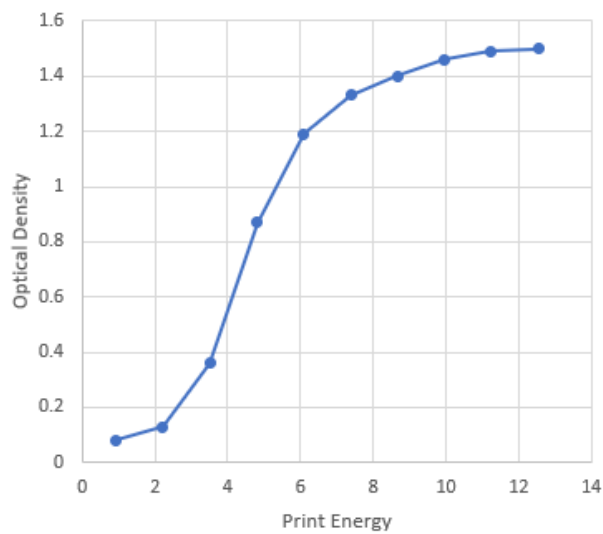
Image	1.10 Minimum
Background	0.20 Maximum
Test Method	90°C, Dry, 1 Hr

Light Resistance

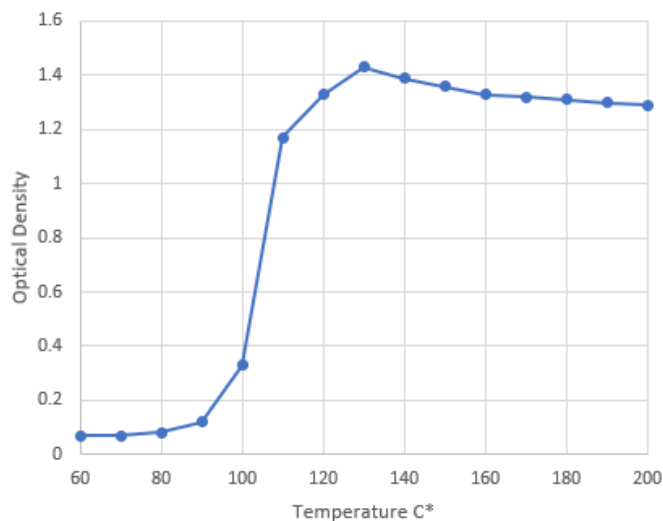
Image	1.10 Minimum
Background	0.20 Maximum
Test Method	Fluorescent Lamp 5klx, 100 Hrs,

150PLS-LST 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.

COATED PRODUCT PROPERTIES

Basis Weight

g/sq m 93 ± 7
Test Method TAPPI T-410

Caliper

mil 3.5 ± 0.4
µm 90 ± 10
Test Method TAPPI T-411

Image Density (ODU Minimum)

1.30
Test Method X-Rite Densitometer

Image Color

Black

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