

140TLE PF DIRECT THERMAL

Specifications may change without notice.
Last Update: December 2025 PS-2518 (Rev.1)

PRODUCT FEATURES

140TLE PF is a Phenol-free alternative to the original 140TLE formulation. It is a high-sensitivity direct thermal paper designed for tag and ticket applications. With a 5.0 mil caliper, it provides exceptional image resolution and barcode reliability. Its smooth surface extends thermal printhead longevity, making it ideal for entertainment tickets, parking passes, automated tickets, and shelf tags.

APPLICATION AREAS

- Entertainment
- Parking Ticket
- Automated Tickets
- Shelf Tags

FACESTOCK PROPERTIES

Basis Weight

lbs (24 x 36 x 500 sheets)	71.3 ± 7.1
lbs (17 x 22 x 500 sheets)	30.9 ± 3.1
g/sq m	116 ± 12

Caliper

mil	5 ± 0.5
µm	126 ± 12

Image Density (ODU Minimum)

1.20

Tear Strength (gf Minimum)

MD	50
CD	50

Stiffness (g-cm Minimum)

MD	6.0
CD	5.0

Initial Activation Temperature

(°F / °C)

O.D. = 0.2	199°F / 93°C
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Effective Activation Temperature

(°F / °C)

O.D. = 0.8	225°F / 107°C
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CERTIFICATIONS

- ISO9001
- ISO14001

REGULATORY



Phenol Free



BPS Free



BPA Free



No Added PFAS

PRESERVATION PROPERTIES

Oil Resistance

Image	1.00 Minimum
Background	0.15 Maximum
Test Method	40°C, Dry, 15 Hrs, X-Rite (ODU)

Moisture Resistance

Image	1.00 Minimum
Background	0.15 Maximum
Test Method	40°C, 90% RH, 24 Hrs, X-Rite (ODU)

Heat Resistance

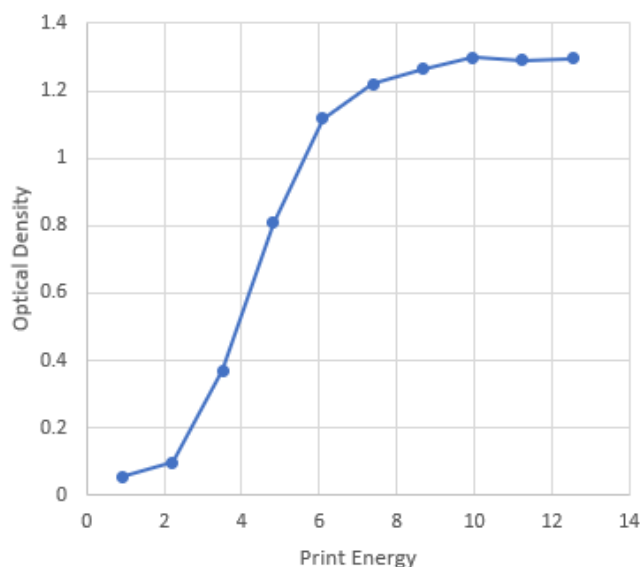
Image	0.80 Minimum
Background	0.20 Maximum
Test Method	80°C, Dry, 24 Hrs, X-Rite (ODU)

Light Resistance

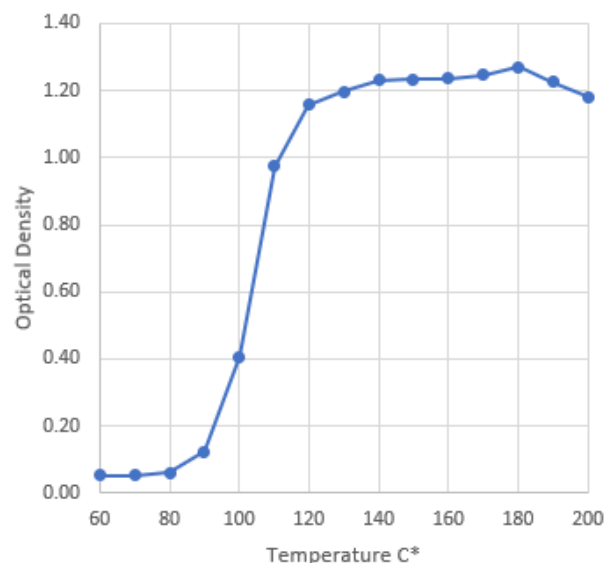
Image	1.15 Minimum
Background	0.15 Maximum
Test Method	5000 lx, 100 Hrs, X-Rite (ODU)

140TLE 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.

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