

140ST 1.6M G25 PF DIRECT THERMAL

Specifications may change without notice.
Last Update: Oct 2025 PS-2509 (Rev.1)



PRODUCT FEATURES

140ST 1.6M G25 PF is a phenol-free cost-effective, medium-sensitivity direct thermal label stock with 1.6mil thin liner designed for high-speed applications. Its thin liner reduces waste and increases roll capacity, allowing for longer production runs and fewer changeovers, which enhances overall efficiency. It delivers excellent barcode scannability and imaging quality, ensuring reliable performance in fast-paced environments.

APPLICATION AREAS

- Shipping Labels
- Distribution and Inventory
- Parts ID and Inventory

FACESTOCK PROPERTIES

Basis Weight

lbs (24 x 36 x 500 sheets)	43.1± 4.3
g/sq m	70 ± 7

Caliper

mil	3.0 ± 0.3
µm	76 ± 7

Image Density (ODU Minimum)

1.05

Tear Strength (gf Minimum)

MD	30.0
CD	35.0

Tensile Strength (kfg/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	200°F / 93°C
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Effective Activation Temperature (°F / °C)

O.D. = 0.8	224°F / 107°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	1.00 Minimum
Background	0.20 Maximum
Test Method	40°C, Dry, 15 Hrs, X-Rite (ODU)

Moisture Resistance

Image	1.00 Minimum
Background	0.20 Maximum
Test Method	40°C, 90% RH, 24 Hrs, X-Rite (ODU)

Heat Resistance

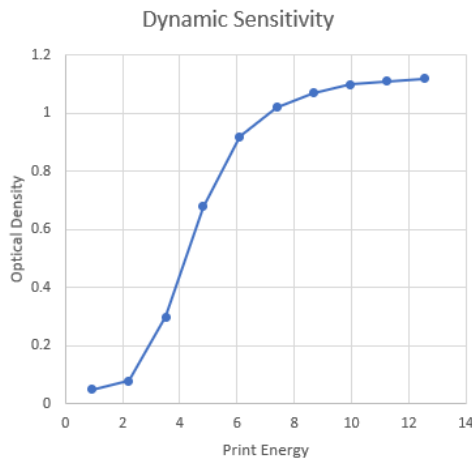
Image	1.00 Minimum
Background	0.20 Maximum
Test Method	80°C, Dry, 1 Hr, X-Rite (ODU)

Light Resistance

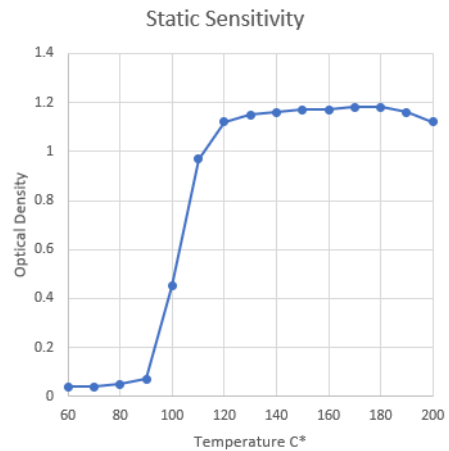
Image	1.00 Minimum
Background	0.20 Maximum
Test Method	5000 lx, 100 Hrs, X-Rite (ODU)

140ST 1.6M G25 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: 27.6 lbs (24 x 36 x 500)

Caliper: 1.6 mils ± 10% (41 ± 4µm)

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 82 ± 12

g/sq m 133 ± 19

Caliper

mil 5.0 ± 0.7

µm 127 ± 18

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