

140LFS DIRECT THERMAL

Specifications may change without notice.
Last Update: June 2025 PS-2446 (Rev.3)

PRODUCT FEATURES

140LFS is a high-sensitivity polypropylene direct thermal film stock with a 3.1 mil base film thickness, designed for applications requiring exceptional durability and high-quality imaging. Its tear-resistant and water-resistant base film ensures reliable performance in demanding environments, making it ideal for applications such as meat processing labels, laboratory labels, shelf tags, and weigh scale labels.

APPLICATION AREAS

- Airline Baggage Tags
- Meat Processing
- Wristbands
- Laboratory Labels
- Shelf Tags
- Weigh Scale Labels
- Product ID

FACESTOCK PROPERTIES

Basis Weight

lbs (24 x 36 x 500 sheets)	40.1 ± 4.9
g/sq m	65 ± 8

Caliper

mil	3.1
µm	80 ± 11

Image Density (ODU Minimum) 1.30

Tensile Strength (kg/sq mm)

MD	6.6
CD	18.0

Stiffness (g-cm Minimum)

MD	3.92
CD	3.92

Initial Activation Temperature

(°F / °C)

O.D. = 0.2	203°F / 95°C
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Effective Activation Temperature

(°F / °C)

O.D. = 0.8	221°F / 105°C
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CERTIFICATIONS

- Indirect Food Contact
- ISO9001
- ISO14001

REGULATORY



BPS Free



BPA Free



No Added PFAS

PRESERVATION PROPERTIES

Oil Resistance

Image	1.20 Minimum
Background	0.15 Maximum
Test Method	40°C, Dry, 15 Hrs, X-Rite (ODU)

Moisture Resistance

Image	1.20 Minimum
Background	0.15 Maximum
Test Method	40°C, 90% RH, 24 Hrs, X-Rite (ODU)

Heat Resistance

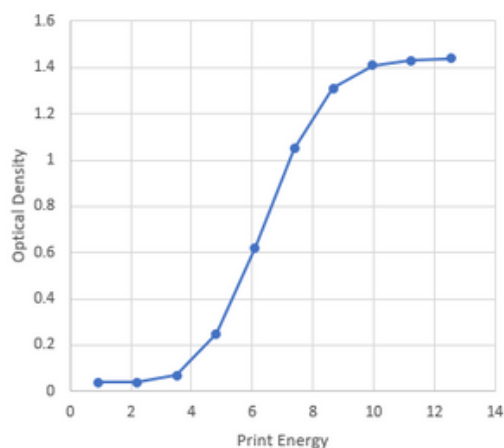
Image	1.20 Minimum
Background	0.20 Maximum
Test Method	70°C, Dry, 24 Hrs, X-Rite (ODU)

Water Resistance

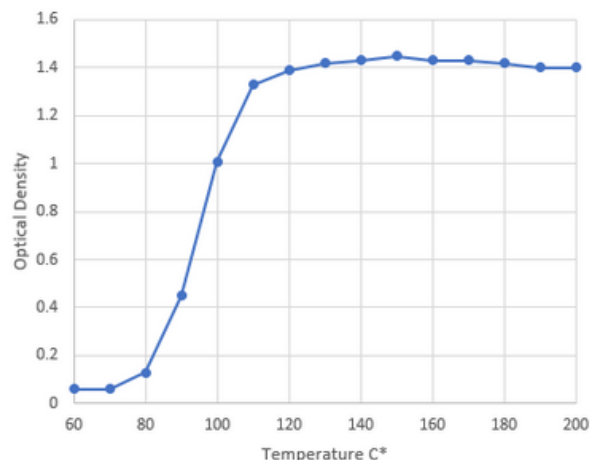
Image	1.00 Minimum
Background	0.12 Maximum
Test Method	Water Immersion, 15 Hrs, X-Rite (ODU)

140LFS 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)

G12 Adhesive: Wide Temperature and Permanent

LAMINATED PRODUCT PROPERTIES

Application Temperature

°F

G12
-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

93 $\pm$ 11

g/sq m

151 $\pm$ 18

Caliper

mil

6.0 $\pm$ 0.8

μ m

153 $\pm$ 21

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