

140LDS DIRECT THERMAL

Specifications may change without notice. Last Update: June 2025 PS-1185 (Rev.14)

PRODUCT FEATURES

140LDS is a high-sensitivity polypropylene direct thermal film stock with a 2.3 mil base film thickness, designed for applications requiring exceptional durability and high-quality imaging. Its tear 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

- · Produce Labels
- · Meat Processing
- Wristbands
- Laboratory Labels
- Shelf Tags
- · Weigh Scale Labels
- Product ID

FACESTOCK PROPERTIES

Basis Weight

lbs (24 x 36 x 500 sheets)	28 ± 5
g/sq m	45.5 ± 8
Caliper	
mil	2.3 ± 0.2
μm	59 ± 6
Image Density (ODU)	1.30
Tensile Strength (kgf/15 mm Minimum)	
MD	9.0
CD	15.0
Stiffness (g-cm Minimum)	
MD	1.6
CD	1.0

Initial Activation Temperature

(°F / °C)

O.D. = 0.2 $212^{\circ}F / 100^{\circ}C$

Effective Activation Temperature

(°F / °C)

O.D. = 0.8 $239^{\circ}F / 115^{\circ}C$



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,

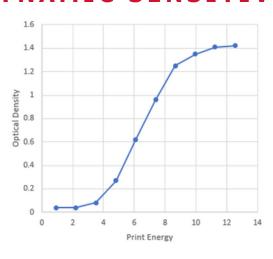
X-Rite (ODU)

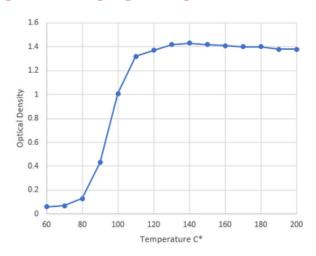


140LDS DIRECT THERMAL SENSITIVITY RESULTS

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: 42 lbs (24 x 36 x 500)

Caliper: 2.4 mils \pm 10% (61 \pm 6µm)

Opacity: 65% Maximum (Photovolt)

G8 Adhesive: : Tight Removable

G12 Adhesive: Wide Temperature and Permanent

G29 Adhesive: Washable

LAMINATED PRODUCT PROPERTIES

Application Temperature	G8	G12	G29
°F	10 to 120	-40 to 122	-40 to 122
°C	-12 to 49	-40 to 50	-40 to 50
Service Temperature			
°F	-20 to 120	-65 to 131	-65 to 131
°C	-29 to 49	-54 to 55	-54 to 55
Basis Weight (24 x 36 x 500)			
lbs	84 ± 11	83 ± 12	80 ± 12
g/sq m	137 ± 18	136 ± 19	130 ± 19
Caliper			
mil	5.5 ± 0.9	5.5 ± 0.9	5.4 ± 0.9
μm	140 ± 22	140 ± 22	138 ± 22

CONTACT US

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