

# 140LDS DIRECT THERMAL

Specifications may change without notice.  
Last Update: Dec 2025 PS-1185 (Rev.15)



## 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°F / 100°C
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### Effective Activation Temperature

#### (°F / °C)

O.D. = 0.8	239°F / 115°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

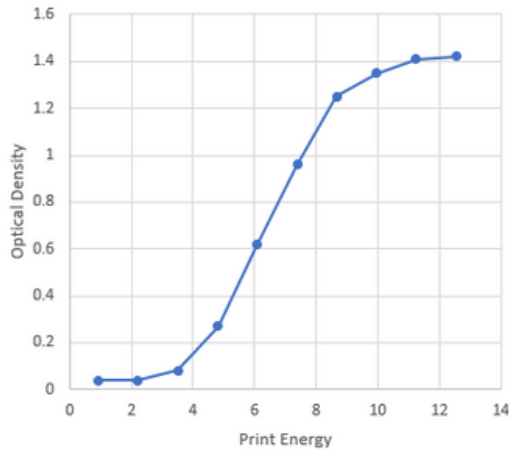
Image	1.20 Minimum
Background	0.20 Maximum
Test Method	70°C, Dry, 24 Hrs, X-Rite (ODU)

### Water Resistance

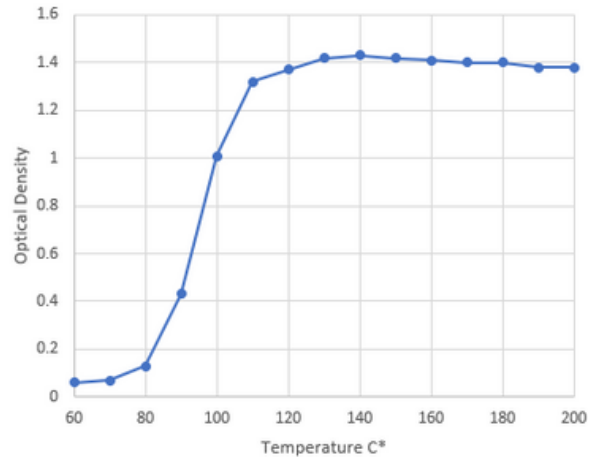
Image	1.00 Minimum
Background	0.12 Maximum
Test Method	Water Immersion, 15 Hrs, X-Rite (ODU)

# 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 ± 10% (61 ± 6µm)

**Opacity:** 65% Maximum (Photovolt)

**G8 Adhesive:** : Tight Removable

**G12 Adhesive:** Wide Temperature and Permanent

## LAMINATED PRODUCT PROPERTIES

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

## CONTACT US

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