

140LES HR G5 DIRECT THERMAL

Specifications may change without notice.
Last Update: June 2025 PS-1516 (Rev.7)



PRODUCT FEATURES

140LES HR G5 is a high-sensitivity polypropylene direct thermal film stock with a 3.9 mil base film thickness, featuring a high-release liner and hot melt adhesive. Designed for applications requiring exceptional durability and high-quality imaging, its tear- and water-resistant base film ensures reliable performance in demanding environments.

APPLICATION AREAS

- Ski Lift Tickets

FACESTOCK PROPERTIES

Basis Weight	
lbs (24 x 36 x 500 sheets)	49.2 ± 4.9
g/sq m	80 ± 8
Caliper	
mil	3.9 ± 0.4
µm	99 ± 10
Image Density (ODU Minimum)	1.30
Tensile Strength (Kgf/15 mm Minimum)	
MD	15.0
CD	25.0
Stiffness (g-cm Minimum)	
MD	0.8
CD	1.2
Initial Activation Temperature	
(°F / °C)	
O.D. = 0.2	203°F / 95°C
Effective Activation Temperature	
(°F / °C)	
O.D. = 0.8	221°F / 105°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

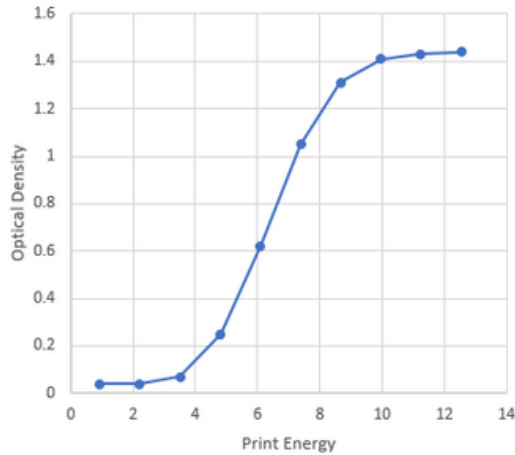
Image	1.20 Minimum
Background	0.20 Maximum
Test Method	70°C, Dry, 24 Hrs, X-Rite (ODU)

Light Resistance

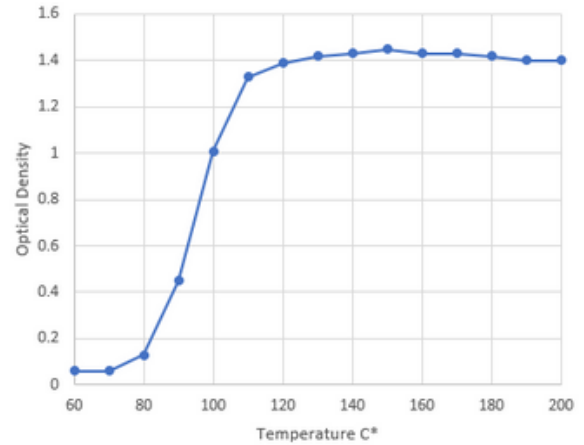
Image	1.20 Minimum
Background	0.15 Maximum
Test Method	5000 lx, 100 Hrs, X-Rite (ODU)

140LES HR G5 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 ± 10% (61 ± 6µm)

Opacity: 65% Maximum (Photovolt)

G5 Adhesive: General Purpose Hot Melt

LAMINATED PRODUCT PROPERTIES

Application Temperature

°F

G5

35 to 120

°C

2 to 49

Service Temperature

°F

-40 to 120

°C

-40 to 49

Basis Weight (24 x 36 x 500)

lbs

105 ± 11

g/sq m

171 ± 18

Caliper

mil

7.2 ± 0.8

µm

183 ± 21

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