



SPECIFICATION SHEET

This product specification sheet provides the detail to aid you in identifying the most appropriate product type to meet your company's specific requirements.
Please direct questions to: **Ricoh Customer Service 1-800-843-7058**

DESCRIPTION

130NIR-3 BF is a durable direct thermal top coated label. It has medium sensitivity and offers various environmental protections.

KEY FEATURES

Standard top-coated thermal paper with BPS free formulation;
Near infrared readability up to 670nm; Strong image resolution; Strong moisture and water resistance

— APPLICATION AREAS —



Shipping Labels



Distribution Labels

FACESTOCK / PRESERVATION PROPERTIES

FACESTOCK PROPERTIES

ITEM		UNIT	SPECIFICATION	TEST METHOD
Basis Weight		lbs (24x36x500 sheets)	43.6 ± 4.9	TAPPI T-410
		g/m2	71 ± 8	
Caliper		mil	3.0 ± 0.3	TAPPI T-411
		µm	76 ± 7	
Image Color			Black	Visual Check
Image Density	(ODU)	Minimum	1.00	X-Rite Densitometer
Tear Strength	MD	gf Minimum	30	TAPPI T-414
	CD	gf Minimum	35	
Tensile Strength	MD	kgf/15 mm Minimum	5.4	TAPPI T-494
	CD	kgf/15 mm Minimum	2.7	
Stiffness	MD	g-cm Minimum	3.0	TAPPI T-489
	CD	g-cm Minimum	2.5	
Initial Activation Temperature	(O.D. = 0.2)	°F / °C	180/ 82	
Effective Activation Temperature	(O.D. = 0.8)	°F / °C	207 / 97	

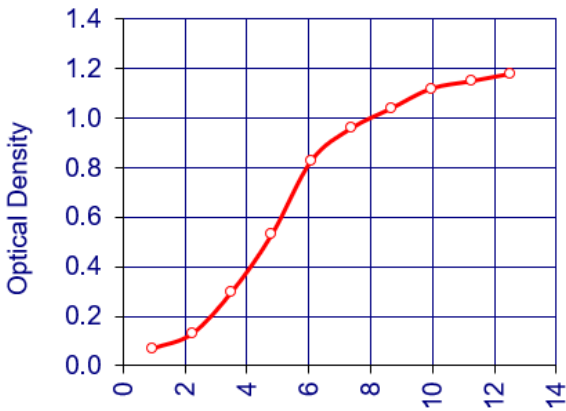
PRESERVATION PROPERTIES

ITEM		SPECIFICATION	TEST METHOD
Oil Resistance	Image	0.80 Minimum	40° C, Dry, 15 Hours
	Background	0.20 Maximum	X-Rite (ODU)
Moisture Resistance	Image	0.50 Minimum	40° C, 90% RH, 24 Hours
	Background	0.20 Maximum	X-Rite (ODU)
Heat Resistance	Image	0.80 Minimum	80° C, Dry, 1 Hour
	Background	0.20 Maximum	X-Rite (ODU)

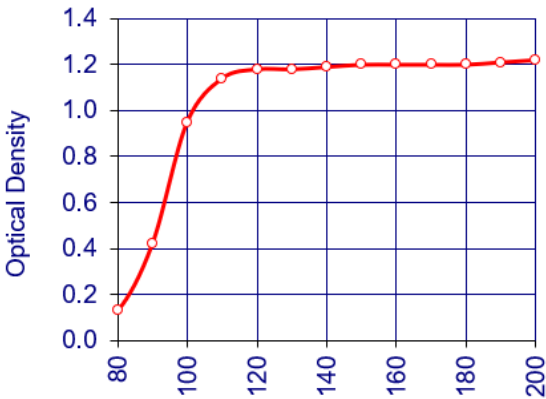


SENSITIVITY RESULTS

Dynamic Sensitivity



Static Sensitivity



Heat Energy (mJ/mm²)

Temperature (°C)

Sensitivity curves are for reference only.
Storage Conditions: Below 95°F (35° C) and less than 85% R.H. in a warehouse, avoiding direct sunlight.
Tests performed on Markpoint MP104.

130 NIR-3 BF – LAMINATED PRODUCT

GRADE	UNIT	G25
Application	°F	-40 to 122
Temperature	°C	-40 to 50
Service	°F	-65 to 131
Temperature	°C	-54 to 55
Basis Weight	lbs	93 ± 10
(24 x 36 x 500)	g/m²	152 ± 17
Caliper	µm	149 ± 17
	mil	5.9 ± 0.7

Liner: 40 lbs
Caliper: 2.5 mils ± 10% (64 ± 8 µm)
Opacity: 65% Maximum (Photovolt)

Adhesive Attributes:
G25 – Wide Temperature and Permanent

CERTIFICATES / REGULATIONS / DIRECTIVES

BPA Free

BPS Free

No Added PFAS

ISO9001

ISO14001

Indirect Food Contact

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