



# SPECIFICATION

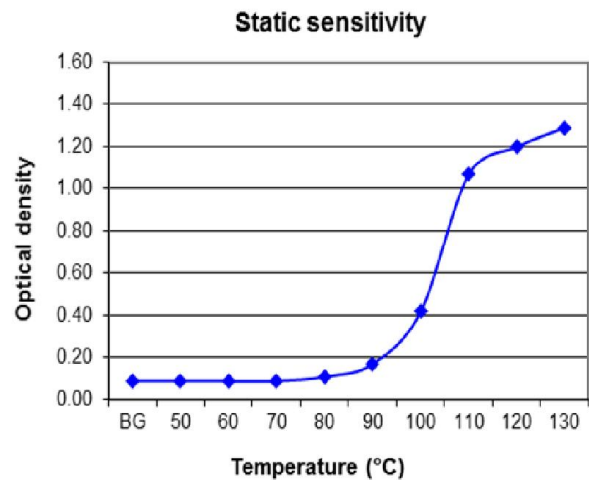
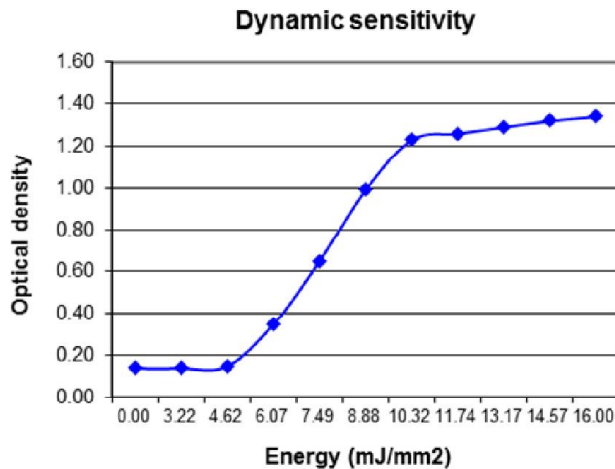
## GT 431

**Description:** Direct thermal top coated  
**Application:** Well suited for Lottery, Gaming, Ticket

<u>Physical Properties</u>		<u>Unit</u>	<u>Specification</u>	<u>Test method</u>
Substance		g/m <sup>2</sup>	76.0 ± 3.0	ISO 536
Thickness		µm	81 ± 5	ISO 534
Smoothness		Sec	Min 1000	Oken method
Brightness		%	Min 80	ISO 2470 (C/2°)
Tensile Strength	MD/CD	kN/m	Min 3.0 / Min 1.5	ISO 1924-2
Tearing Strength	MD/CD	mN	Min 320 / Min 330	ISO 1974
Stiffness	MD/CD	Cm <sup>3</sup> /100	>25 / >10	JIS P8143

<u>Image Density</u>		<u>Test method</u>
10.32mJ/ mm <sup>2</sup>	Min 0.90	Atlantek 400 / Speed 4.0 inch/sec.
16.00mJ/ mm <sup>2</sup>	Min 1.20	

<u>Durability</u>	<u>Background / Image part</u>	<u>Test method</u>
Heat Resistance	Max 0.25 / Min 1.10	60°C dry 24Hrs.
Moisture Resistance	Max 0.20 / Min 1.10	40°C 90%RH 24Hrs.
Light Resistance	Max 0.20 / Min 1.10	5000Lux 100Hrs.
Water Resistance	Max 0.20 / Min 0.80	Immerse water Room temp 24Hrs.
Oil Resistance	Max 0.20 / Min 1.10	Wipe 24Hrs.
Plasticizer Resistance	Max 0.20 / Min 1.10	PVC film Room temp. 24Hrs.
100% Ethanol Resistance	Max 0.40 / Min 1.10	Wipe Room temp.



### Storage Suggestion

Our thermal paper should be stored at a constant temperature of 23 ± 5 °C and a relative humidity of 50 ± 10%. Exposure to strong sunlight or strong artificial light or the influence of aggressive chemicals should be avoided.

Valid from June 2023