

MOVING FORWARD TO THE FUTURE

CATALOG 2022 EDITION

THIS TECHNOLOGY GIVES YOU **ENDLESS POSSIBILITIES** AND CAN BE INCORPORATED IN ANY DESIGN OR PROJECT







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Product Classification / Category

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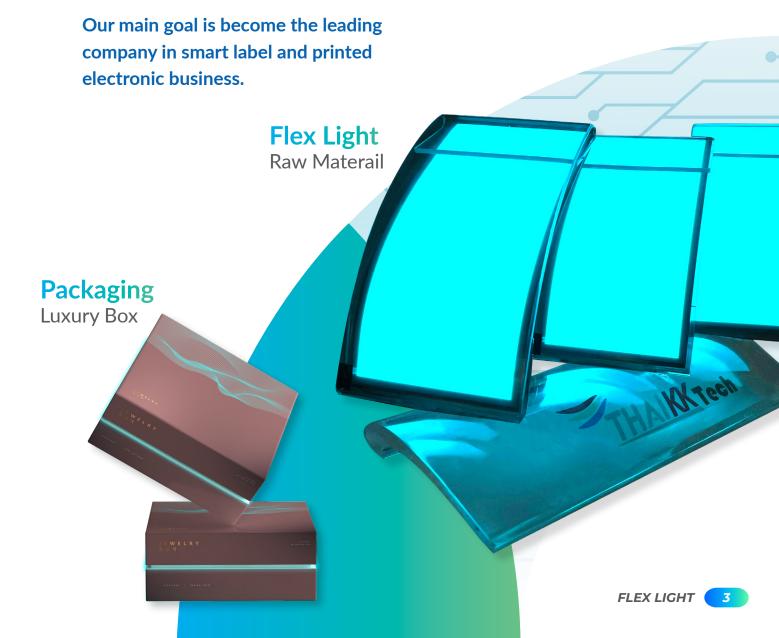
COMPANYPROFILE



Thai KK Tech Co., Ltd. was established in 2015 is a joint venture between Thai KK Industry Co., Ltd. and E.P.C. Corporation Co., Ltd.

From the beginning to nowadays we has experienced in these fields of business and constantly attended to the research and development focusing in the printed electronic technology which meets with the customer requirement as well.







Flex light is a kind of electrical device. Produced by Print electronics method, which is considered one of the modern methods of producing electronic products. Including using raw materials, which are special types of ink that can be printed

The printing process is carried out in a standardized and organized control room. The flex light sheets produced are QA checked for light luminance, encapsulation efficiency or moisture resistance. Including the power consumption rate which must be within the specified standards



ILLUMINATION TEST



ENERGY CONSUMPTION RATE

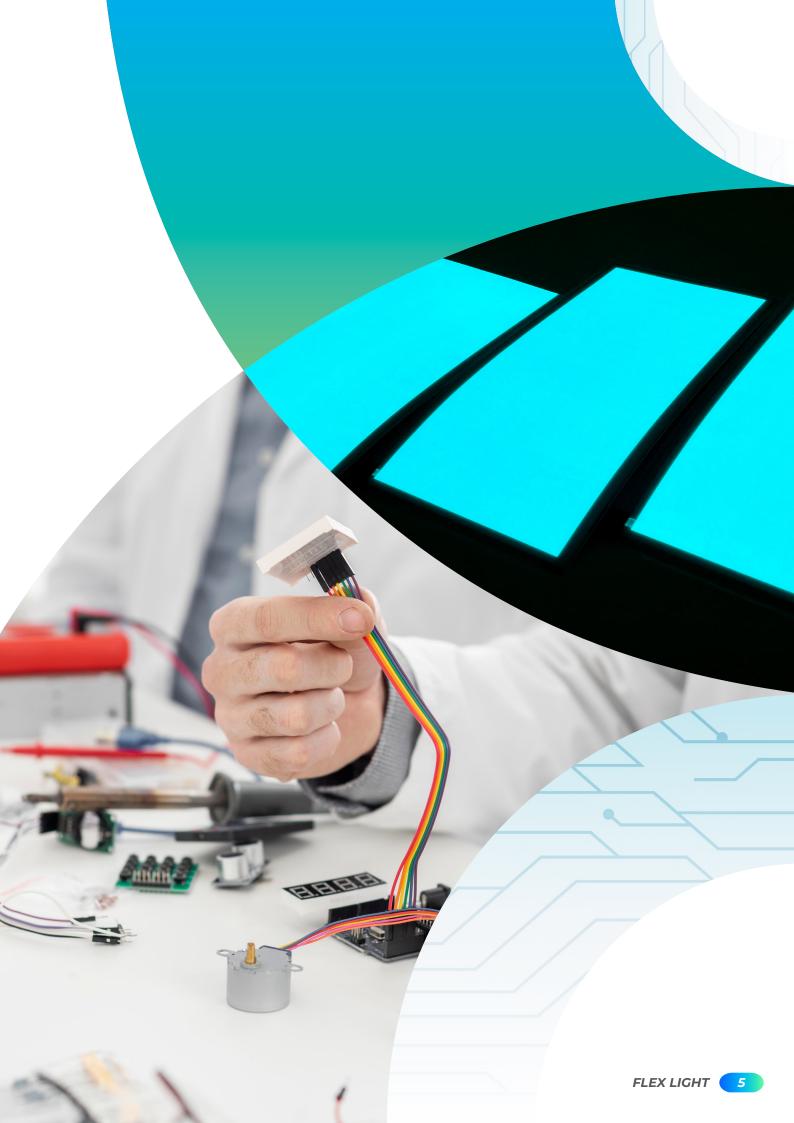


IMPACT TEST



WATERPROOF TEST









Lightweight and Thin shape



Flexibility

Can be applied to a flat or curved surface



Various Shapes

Produced in flat sheets or various shapes

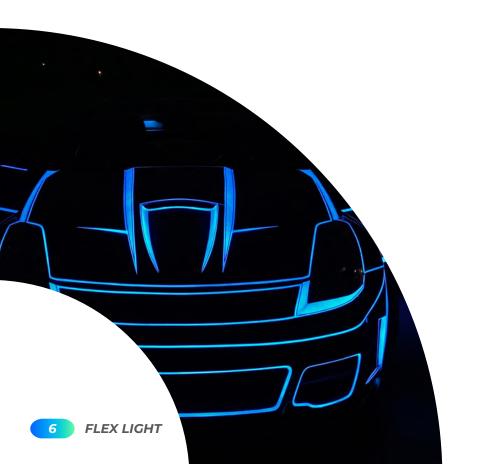


Works in all sorts of environment and temperature



Low power consumption

Consumes less electricity







WHAT IS FLEX LIGHT?

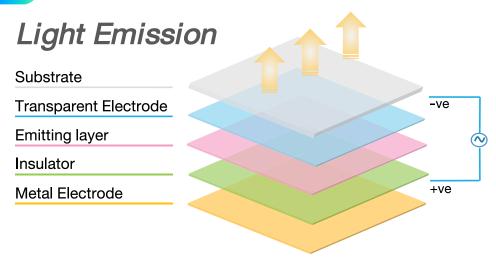
Flex light is Electroluminescent Panels

Commonly called EL Panels, or EL Sheets are thin and flexible nature, which allows them to be mounted in numerous locations, even curved surfaces.

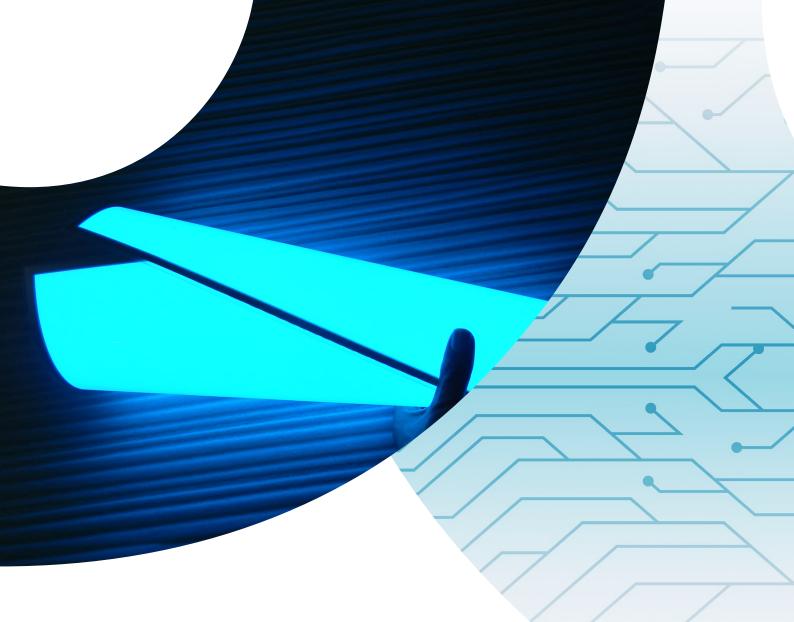
All EL Panels (also called Light Panels, Luminescent Panels) are a Filmic thin laminated panels made from the element Phosphor that has a great glow when an electrical current AND high frequency passes. In order to light up, every EL Panel requires an inverter to operate. The inverter sends a proper voltage and frequency throughout the panel which illuminates it beautifully and evenly.

Each inverter is rated for a specific square inch range, which is calculated by taking the TOTAL surface area of the panel. In some instances, people may want multiple EL Panels on a single inverter, A suitable inverter can be apply powers to one larger panel, or multiple small panels.

Side View







We can printing onto a transparency materials and placing that on top.

This technology gives you endless possibilities and can be incorporated in any design or project.

Product Description FLEX LIGHT

General Property

- ✓ Flexibility Can be applied to a flat or curved surface
- ✓ Low operating temperature Flex light is a cold lighting source and does not generate any heat due to its electronic luminous emission
- ✓ Lightweight and Thin shape
- ✓ Efficiency 80% of energy is converted to light
- ✓ Low power consumption Consumes less electricity
- ✓ No Glare Flex light produces a soft even light over the entire surface
- ✓ **Visibility** can be seen from far distances in darkness, smoke and frog
- ✓ Works in all sorts of environment and temperature
- ✓ Maintenance free and only need power to make it working instantly

Typical Properties

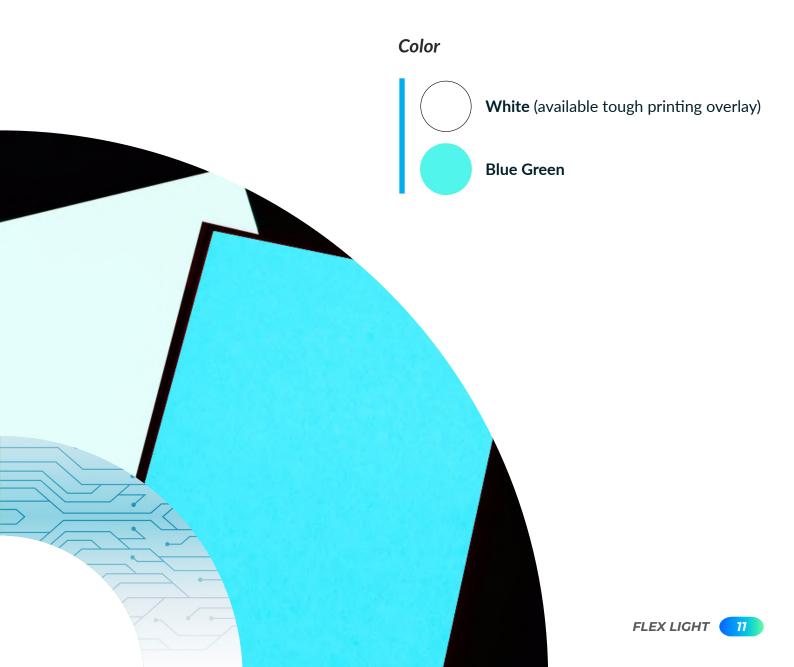
PROPERTY	DETAIL	
Initial Brightness	200 lux	
Average Service Life	8000 hrs	
Color	White (available tough printing overlay)Blue-Green	
Thickness	200 - 300 Micron	
Dimension	Adapted to the design	
Lighting	Animating or flashing	

Description and Applications

Flex light

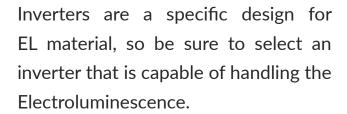
Electroluminescent (EL) or Flex light is a flexible sheet coated with EL material which is an optical phenomenon and electrical phenomenon in which a material emits light in response to the passage of an electric current or to a strong electric field.

As applied an AC/ DC signal of sufficient voltage and frequency through the driving electronic, an electric field is formed across the sheet allows the phosphor crystals rapidly charged and emitted light energy which illuminated the printed overlay. This causes to have the visible light.



Technical Data **INVERTER**

ALL Flex light or Electroluminescent material needs an inverter to make it work. Inverter does is convert a voltage into a high frequency. In doing so, it excites the phosphor particles inside the EL Material and glows a brilliant glow.





Product Detail

	Model	Power Consumption (Power, Current)	Operating Voltage for EL	Frequence Blue, White (Hz)	Inverter Size (mm)
	Flex Light A4 (Inverter 12 VDC)	22W, 1.8A	150 VAC	800, 1100	116 x 56 x 35
	Flex Light A4 (Inverter 220VAC)	22W, 1.8A	150 VAC	800, 1100	116 x 56 x 35
	Flex Light A5 (Inverter 12 VDC)	13.2W, 1.1A	120 VAC	600, 900	116 x 56 x 35
	Flex Light A5 (Inverter 220VAC)	13.2W, 1.1A	120 VAC	600, 900	116 x 56 x 35
	Flex Light Tape 0.5m (Inverter 3VDC)	4W, 1.3A	85 VAC	600, 900	90 x 32 x 25
F	Flex Light Logo Set VAC (Inverter 3VDC)	3W, 1A	85 VAC	600, 900	90 x 32 x 25



Feature

Туре	Feature	
Standard Set	Blink, Steady	
Dim Set	Blink, Steady, Fade (in-out)	
Dim set and Sound Sensor	Blink, Steady, Fade (in-out), Control by sound sensor	
Dim set, Sound Sensor and Light Sensor	Blink, Steady, Fade (in-out), Control by sound sensor and Control by light sensor	
Custom	Custom Feature	



Applications

Packaging



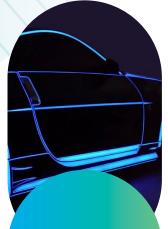
- Luxury box
- Limited package

Advertising



- Billboard
- Signage
- Lightbox
- Bus Shelters
- Vehicle Wraps
- Point of Purchase/ Sale (POP/POS)

Decorations



- Backdrop
- Wallpaper
- Toilet Frame
- Festival Lighting or Automotive Decoration

Safety Equipments



- Vest
- Helmet
- Belts
- Indicator or Sign
- Safety Cone
- Vehicle Signage

Advertising

Signage





Gift, Toys, Souvenirs



- Inflatable
- Card
- Clock
- Mat
- Frames

Architectural Lighting



- Exterior Lighting
- Interior Lighting

Fashion & Accessories







MOVING FORWARD TO THE FUTURE

OUR MAIN GOLD IS

BECOME THE LEADING COMPANY
IN PRINTED ELECTRONIC AND
SMART LABEL BUSINESS

CONTACT US



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