



# TECHNICAL DATA SHEET

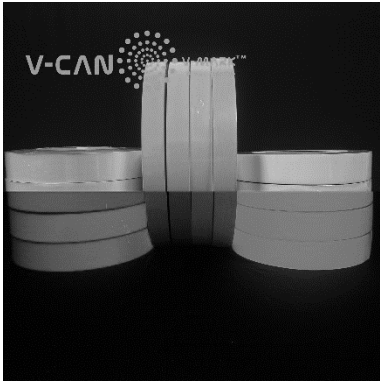



This article is describing the glow-in-the-dark film which is categorized in below green bar

V-LUMIIX Basic Grade series
V-LUMIIX Business Grade series
V-LUMIIX Intense Grade series
V-LUMIIX Luxury Grade series

## V-LUMIIX Business Grade series

V-LUMIIX Business Grade series is a series of high performance Photoluminescent film for safety and emergency exit signage, markings. V-LUMIIX Business Grade series Photoluminescent Film is designed to meet or exceed ASTM E2072-10, DIN 67510 Part 4, NYC RS 6-1, IMO A.752, OSHA 1910, 2000 IBC. It is coated with a permanent pressure sensitive adhesive, which gives good adhesion to a wide variety of smooth and flat substrates.

V-LUMIIX Business Grade series Photoluminescent Film is available in both PVC material and PET material. PVC film can be easily electrocut, hand cut, cold and hot kiss cut, screen printed, inkjet printed to produce interior 'glow in the dark' signs and markings. PET film is recommended to use in strip to luminate the handrail, staircase, pathway where certified photoluminescent material is required.

V-LUMIIX Basic Grade series	V-LUMIIX Business Grade series
	
V-LUMIIX Intense Grade series	V-LUMIIX Luxury Grade series
	





V-LUMIIX Business Grade series contains below article numbers

V-LUMIIX Business Series Photoluminescent Film							
Article Numbers	Carrier Substance	Plotter cutting	Screen Printing	Digital Printing	Thickness (mm) +/-10%	Daytime Color	Glow Color
PL9P-10010	PVC	○	●	●	0.35	Yellowish	Green
PL9T-10010	PET	●	○	○	0.35	Yellowish	Green
PL9P-15020	PVC	○	●	●	0.35	Yellowish	Green
PL9T-15020	PET	●	○	○	0.35	Yellowish	Green
PL9P-21030	PVC	○	●	●	0.35	Yellowish	Green
PL9T-21030	PET	●	○	○	0.35	Yellowish	Green
PL8P-10010	PVC	●	●	●	0.18	Yellowish	Green
PL8T-10010	PET	●	○	○	0.24	Yellowish	Green
PL8P-15020	PVC	●	●	●	0.20	Yellowish	Green
PL8T-15020	PET	●	○	○	0.27	Yellowish	Green
PL8P-21030	PVC	●	●	●	0.24	Yellowish	Green
PL8T-21030	PET	●	○	○	0.31	Yellowish	Green

Note: ○ means N/A, ● means Applicable

### Luminance

When measured per DIN 67510 Part 1, V-LUMIIX Business Grade series Photoluminescent film can meet or exceed the luminance in below table.

V-LUMIIX Business Series Photoluminescent Film			
Article Numbers	mcd/m <sup>2</sup> after 10 min	mcd/m <sup>2</sup> after 60 min	Activation
PL9P-10010	100	10	1000 lx xenon, 5 min
PL9T-10010	100	10	
PL9P-15020	150	20	
PL9T-15020	150	20	
PL9P-21030	210	30	
PL9T-21030	210	30	
PL8P-10010	100	10	
PL8T-10010	100	10	
PL8P-15020	150	20	
PL8T-15020	150	20	
PL8P-21030	210	30	
PL8T-21030	210	30	

Note:1- Numbers in the Article Numbers of V-LUMIIX Photoluminescent Film indicates the Luminance

2- V-LUMIIX Business Grade series Photoluminescent film can also meet NYC RS6-1 and ASTM E2072-10





## Physical Property

V-LUMIX Business Series Photoluminescent Film	
Applicable Substrates	Flat, simple curves
Adhesive	PSA
Application Temperature Range	18°C to 38 °C
Application	Signs, Markings, Home Decoration, Toy, Novelties
Indoor Durability	10 years
Shelf life	1 years

## Applications for Standards and Codes

V-LUMIX Business Grade Series Photoluminescent film meets below codes and standards.

Market	Codes and Standards	Applications
Building	ASTM E2072-10	Safety Markings
Building	ASTM E230-09a	Safety Marking Guide
Building	UL 1994	Egress Path Marking
Building	IBC 2009	Egress Path Marking
Building	2010 CA Building Code	Egress Path Marking
Building	2005 CT Building Code	Egress Path Marking
Building	CAN/ULC-S572-10	Egress Path Marking System
Building	NYC RS6-1 and RS6-1A	Exit Signs and Path Marking System
Building	ISO 16069	Graphic Symbols
Building	ISO 17398	Safety Colors and Signs
Industrial	OSHA 10910.37	Exit Signs
Life Safety	IFC 2009	Egress Path Marking
Life Safety	NFP 5000	Egress Path Marking
Life Safety	NFPA 101	Egress Path Marking
Navy	CID AA 55792	Egress Path Marking
Passenger Rail	APTA SS-PS-002-98 Rev.2	Emergency Exit Signs

## Storage and Packaging

V-LUMIX Photoluminescent Film should be stored in a cool, dry area, preferably at 65-75°F (18-24°C) and 30-50% relative humidity and should be applied within one year of purchase.

Rolls should be stored horizontally in the shipping carton. Partially used rolls should be returned to the shipping carton or suspended horizontally from a rod or pipe through the core. Unprocessed sheets should be stored flat. Finished signs and applied blanks should be stored on edge.





## TECHNICAL DATA SHEET

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Screen processed signs must be protected with slipsheet paper. Place the glossy side of the slipsheet against the sign face and pad the face with closed cell packaging foam. Double faced signs must have the glossy side of the slipsheet against each face of the sign.

Unmounted screened faces must be stored flat and interleaved with slipsheet, glossy side against the sign face. Avoid banding, crating, or stacking signs. Package for shipment should be in accordance with commercially accepted standards to prevent movement and chafing. Store sign packages indoors on edges.

Panels or finished signs must remain dry during shipment and storage. If packaged signs become wet, unpack immediately and allow signs to dry.