

Light Conversion Film



Brief Introduction

light conversion film is a patent product developed by Dalian Luminglight Co., Ltd., it is a soft high polymer material light conversion film. It can be excited by blue LED chip which is lower than 500nm Transparent PET substrate is on the surface of light conversion film which can be released according to the requirement, leaving light conversion layer can be used to 200°C. It is non-toxic, harmless, non-radioactive elements, high light conversion efficiency. It shows stability physical and chemical properties, variety of color, high brightness, uniformity of light, long life.

Product Data Sheet

Model	luminous color/ Color temperature	Ra	excitation spectrum	Thickness (μm)	Dimension	Application
LM-ZHMG-B-060	White/6000K	75	450—470nm Blue LED chip	350	A4/ 0.5m*4m/ .	Apply to LED lamps,
LM-ZHMG-B-030	Yellow/3000K	65	450—470nm Blue LED chip	350		
LM-ZHMG-B-032	Yellow/3000K	80	450—470nm Blue LED chip	350		

Light Conversion Film



CHARACTERISTICS

- Light conversion film is made of PET plastic. It is a soft plastic light conversion film, non-toxic, harmless, non-radioactive, high light conversion efficiency. It shows stability physical and chemical properties, variety of color, high brightness, uniformity of light, long life.
- It can be excited by blue LED chip which is lower than 500nm, and also can be excited by UV light source.
- Resistance of salt and detergent (can use detergents to clean).
- Resistance of heat and cold, working temperature is $-20\sim 200^{\circ}\text{C}$.
- Stability of physical and chemical properties, good mechanical properties.
- It contains particles of light, with light diffusion, can be used instead of diffusion film.
- The blue light wave is at $455\sim 460\text{nm}$ by color temperature test.

USING METHODS AND PRECAUTIONS

- Lumilight's light conversion film is optical films, light-colored surface next to the light source when in use.
- It should be working on flat surface and the working temperature is $10\sim 40^{\circ}\text{C}$.
- Our light conversion film can be cut to various shapes, directly placed somewhere (such as circuit boards, light guide plate or chip surface, etc.) to play the role of light conversion.
- Transparent PET(25um) substrate was on the surface of light conversion film, according to the requirement, PET can be released after the film was fixed, leaving only the heat resisting light conversion layer.
- We can use screen printing design, text and other methods on the surface of light conversion film, forming a backing light.
- The surface should be cleaned, no oil, dust, etc..
- For the environment should not exceed 200°C , otherwise easily lead to material aging discoloration
- The light conversion film has a certain thermal expansion and contraction characteristics; biopsy of light conversion film can not be left unattended and should put the folder or put heavy pressure to prevent deformation and curling.

PACKING and STORING

- Packaging: Roll or sheet form, external plastic film packaging.
- Store: Should be stored in ventilated, dry, cool warehouse, storage temperature of $15\sim 30^{\circ}\text{C}$, relative humidity $40\sim 60\%$.

