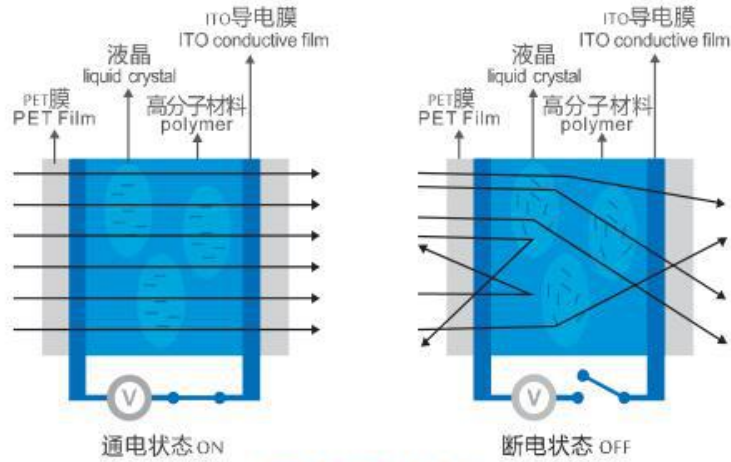


PDLC SMART FILM PRINCIPLE

液晶调光膜简介



(PDLC膜的原理示意图)

PDLC膜简而言之是一个巨型平板电容，依靠施加或撤除电场来使极性液晶分子定向或无序排列，从而达到透明或遮蔽效果。其效果如下图所示：

In short, as the above figshows,PDLC film is a huge flat capacitor which realizes transparent or opaque effect by applying or removing electric field to drive the liquid crystal molecules aligned or disordered array.Following fig shows PDLC film's usage.

The most important thing is our company had searched out color smart film of world's leading. This large technology cant modulate color optionally in America,Janpan,Karea and so on.Color smart film also divided into non-adhesive and adhesive smart film,the down picture is the samples of color smart film .



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液晶调光膜简介



UCEF (全称为Ultra Clear Electronic Film)

中文名为超清透电控膜是基于普通调光膜改进后的革命性的第三代产品。其液晶聚合物配方的原料大部分来自欧洲,同时对导电膜进行了升级改良,重新规划了生产工艺,使UCEF在整体性能上有了质的飞跃。

UCEF超清透调光膜具有更清、更透、更耐用的产品优势,可大幅度提升调光膜相关产品的功能效果与使用寿命。

UCEF系列产品有两大类:

一类是贴膜产品,可以贴在现有玻璃或其他透明介质上直接使用,适用于已经安装好玻璃,并且不方便更换况,或者适用于特殊贴膜产品,如汽车贴膜或设备贴膜;

另一类是智能调光玻璃产品,通过将UCEF通过玻璃夹胶工艺夹合在夹胶玻璃中使用,能有效防止UCEF被划花或磨损。



UCEF相对于其他品牌的智能调光膜来说有四大优势,这四大优势极大的提高UCEF的使用寿命、美观度以及安全性能。

1 UCEF具有超高抗电压冲击优势 High electric voltage resistance

UCEF具有优良的抗高电压冲击性能,能承受额定电压3倍以上瞬间高压,这意味着当电源偶尔因供电问题而出现骤然高压之时,UCEF具有比同类产品更好的生存能力。

Our UCEF is featured with good electric voltage resistance. It can endure instant high voltage as high as more than 3 times of rated voltage. Compared with other brand smart film, UCEF has better service life when there is high voltage caused by electric supply problems.

2 UCEF High weather resistance & No shrinkage

智能调光膜在使用中会因三种原因损坏:“腐蚀、温差、老化”。UCEF有着超高的耐候特性,通过了严苛的耐候性检测,其性能远超标准。缩边是调光膜使用中最大的隐患,缩边会使膜失去部分功能,使调光膜的外观将毫无美观度可言。但UCEF能做到绝不缩边!不管在何情况下,只要按照指导进行操作,我们的UCEF膜都不会发生缩边的情况。

Smart film damage mainly comes from 3 factors including corrosion, temperature difference and aging. Our UCEF is with high weather resistance. It has passed strict weather resistance inspection, and its performance is much better than standard requirements. Shrinkage is the biggest hidden trouble of smart films. Shrunken smart film will lose part of its functional area. And its appearance will be rather ugly. Our UCEF smart film will never shrink! Under no conditions will Shrinkage happen to our UCEF smart film if you use it according to our instruction.

3 UCEF Waterproof

防水是UCEF的又一大亮点,作为主打使用的卫浴隔断领域,没有优良的防水性能是无法保证智能调光膜的使用寿命及使用效果的。UCEF能保证即使在水中浸泡数月之后,或者常年用在卫浴积累的水珠,膜依然完好无损。如右图:

Excellent waterproof performance is another shining feature of UCEF. When smart film is used for shower enclosure, its service life and performances cannot be ensured without good waterproof quality.

UCEF can work well even after soaking in water for several months or using in bathroom where there is high humidity all the year around. As following.



4 UCEF High clearance

UCEF无色透明,雾度很低,其清晰度基本不受面积大小影响。劣质的调光膜在面积超过1m²或1.5m²的时候,雾度明显增大,透视角度降低,导致整片玻璃视野不佳,工程效果和小样品效果有明显差距。而UCEF给您带来的是完全不一样的感受,如下图:

Our UCEF is clear and with low haze. Its clearance will be not affected because of its size. As for the poor quality film, when size is bigger than 1m² or 1.5m², haze increases, transmission view angle of bad quality film becomes narrow, and the view of the whole glass is bad. There is big difference between project effect and sample effect. Our UCEF will never have this problem. As following.

