

**TECHNICAL DATA OF 3G SWITCHABLE FILM  
 FOR NPD-220, NPD-300 AND NPD-400 SERIES**

**3G 调光膜技术参数**

**NPD-220 型, NPD-300 型, NPD-400 型**

Name of Features 性能名称	Data and Results 参数和结果	
Mode 模式	Positive 正型	Translucent (Power off) 散射 (断电)
		Transparent (Power on) 透明 (通电)
Color 颜色	Milky White / Clear 乳白 / 透明	
Thickness 厚度	0.375 mm or 0.015"	
Size 尺寸	Flexible and up to 1.3 m x 2.85 m or 51" x 112" 可变, 最大到 1.30 m x 2.85 m	
Operation Temperature 操作温度	-10 to 60 °C, NPD-220 型 -20 to 70 °C, NPD-300 型 -30 to 80 °C, NPD-400 型	
Storage Temperature 储藏温度	- 30 to 70 °C	
Driving Voltage 驱动电压	50 ± 5 V (AC, 50 – 60 Hz) NPD-220 型 20 ± 5 V (AC, 50 – 60 Hz) NPD-300 型 20 ± 5 V (AC, 50 – 60 Hz) NPD-400 型	
Current 电流	0.1 (A/m <sup>2</sup> , 安培 / 平方米) NPD-220 型 0.05 (A/m <sup>2</sup> , 安培 / 平方米) NPD-300 型 0.04 (A/m <sup>2</sup> , 安培 / 平方米) NPD-400 型	
Energy Consumption 能源消耗	5 (Watt/m <sup>2</sup> , 瓦 / 平方米) NPD-220 型 2 (Watt/m <sup>2</sup> , 瓦 / 平方米) NPD-300 型 1.5 (Watt/m <sup>2</sup> , 瓦 / 平方米) NPD-400 型	
Transparency 透光率	> 75 %	
Viewing Angle 视角	> 160° 透明态 360° 投影可视 视角变化, 亮度不变	
Response Time 响应速度	< 0.005 (Seconds 秒) 开启速度 < 0.2 (Seconds 秒) 关闭速度	
Operational Lifetime 操作寿命	> 80,000,000 (Switching Times 开关次数)	

## Scienstry, Inc.

1110 E. Collins Blvd. Suite 120  
Richardson, TX 75081

Tel: (972) 690-5880  
Fax: (972) 690-5888

1. The above electrical and optical data were obtained with LCD Testing System MF-500 at ambient temperature, 24 °C.  
上述光电数据由 LCD 检测系统 MF-500, 在室温 24 °C 下获得。

2. Although the film has passed a high voltage test, for extending the operational lifetime of the film, the driving voltage should not go beyond 100V. Calculation for suitable driving voltage with standard wiring is: Driving Voltage = SV + SRC, SV — Standard Voltage, SRC — Sheet Resistance Compensation. SRC = 5V x Distance between electrodes in foot.  
虽然该薄膜已经通过高电压测试,为了延长操作寿命, 驱动电压不应超过 100V. 适合的驱动电压 (标准电极) 计算: 驱动电压 = SV + SRC, SV — 标准电压, SRC — 膜电阻补偿, SRC = 5V x 电极距离 (单位尺)。

3. The above data are typical values. Due to continual research and development on the products, the data may change without notice.

上述参数为典型实测数据.由于产品不断的研究开发, 这些参数在不通知的情况下可能变化。

4. Scienstry will provide a one year warranty for satisfactory in-door performance and against defects in workmanship as well as on electric failure for unmodified products. Scienstry may select either to replace the film at its cost or to credit refund to the customer.

美国科化将对室内使用, 未被改动和未经处理过的产品, 所产生的缺陷及电性能故障提供一年的质量保证。美国科化有权选择替换产品或补偿客户购买的费用。