



高盛電子科技ITO Film產品--抗炫、抗牛頓環SPECS

| ITEM                    |                                 | Test condition  | GS40IGN-188  |         |     |     |     |
|-------------------------|---------------------------------|-----------------|--|---------|-----|-----|-----|
| Material                | Structure                       |                 | <table border="1"> <tr><td>AG</td></tr> <tr><td>PET</td></tr> <tr><td>ANR</td></tr> <tr><td>ITO</td></tr> </table> | AG      | PET | ANR | ITO |
|                         | AG                              |                 |  |         |     |     |     |
|                         | PET                             |                 |  |         |     |     |     |
| ANR                     |                                 |                 |  |         |     |     |     |
| ITO                     |                                 |                 |  |         |     |     |     |
| PET Film Thickness (μm) |                                 | Thickness gauge | 188  |         |     |     |     |
| Total Thickness (μm)    |                                 | Thickness gauge | 195±5  |         |     |     |     |
| optical property        | Total light Transmittance (%)   |                 | ASTM D1003   | ≥86     |     |     |     |
|                         | Haze (%)                        |                 | ASTM D1003   | 6-10    |     |     |     |
|                         | Lab Value                       | b*              | ASTM D1003   | ≤3      |     |     |     |
| Electrical property     | Sheet Resistance R0 (Ω/□)       | Before heating  | 4-point-probe  | 400±100 |     |     |     |
|                         |                                 | After heating   | 150°C , 30min , 4-point-probe  |         |     |     |     |
|                         | Sheet Resistance uniformity (%) |                 | Linearity  | <5      |     |     |     |
| Thermal property        | Curl (H,mm)                     |                 | sample size:100mm X 100mm  | ≤10     |     |     |     |
|                         | Thermal Shrinkage               | MD (%)          | sample size:100mm X 100mm  | ≤1      |     |     |     |
|                         |                                 | TD (%)          | sample size:100mm X 100mm  | ≤1      |     |     |     |
| Mechanical property     | Hardness                        | HC              | JIS K5600 (500g)   | 3H      |     |     |     |
|                         | Adhesion                        | HC              | JIS K5600  | 100/100 |     |     |     |
|                         |                                 | ITO             | JIS K5600  | 100/100 |     |     |     |
| Reliability             | High temp.Stability (R/R0)      |                 | 150°C , 30min  | ≤1.2    |     |     |     |
|                         | Low temp.Stability (R/R0)       |                 | -30°C , 240hr  | ≤1.2    |     |     |     |
|                         | Humidity Stability (R/R0)       |                 | 60°C , 95%RH , 240hr   | ≤1.2    |     |     |     |
|                         | Thermal shock Stability (R/R0)  |                 | -30°C(30min) ~ -85°C(30min) , 50 cycle   | ≤1.2    |     |     |     |
| Chemical property       | Ethanol (R/R0)                  |                 | R.T , 30min  | ≤1.2    |     |     |     |
|                         | Acetone (R/R0)                  |                 | R.T , 30min  | ≤1.2    |     |     |     |
|                         | Toluene (R/R0)                  |                 | R.T , 30min  | ≤1.2    |     |     |     |

交貨出貨尺寸一定能符合貴公司需求  
 希望有機會全力配合, 共創美好未來