



## 高盛電子科技ITO Film產品--抗牛頓環SPECS

ITEM		Test condition	GS40I3N-188				
<b>Material</b>	Structure		<table border="1"> <tr><td>HC</td></tr> <tr><td>PET</td></tr> <tr><td>ANR</td></tr> <tr><td>ITO</td></tr> </table>	HC	PET	ANR	ITO
	HC						
	PET						
ANR							
ITO							
PET Film Thickness (μm)		Thickness gauge	188				
Total Thickness (μm)		Thickness gauge	195±5				
<b>optical property</b>	Total light Transmittance (%)		ASTM D1003 ≥86				
	Haze (%)		ASTM D1003 3-5				
	Lab Value	b*	ASTM D1003 ≤3				
<b>Electrical property</b>	Sheet Resistance R0 (Ω/□)	Before heating	4-point-probe 400±100				
		After heating		150°C , 30min , 4-point-probe			
	Sheet Resistance uniformity (%)		Linearity	<5			
<b>Thermal property</b>	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				
<b>Mechanical property</b>	Hardness	HC	JIS K5600 (500g) 3H				
	Adhesion	HC	JIS K5600 100/100				
		ITO	JIS K5600 100/100				
<b>Reliability</b>	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				
<b>Chemical property</b>	Ethanol (R/R0)		R.T , 30min ≤1.2				
	Acetone (R/R0)		R.T , 30min ≤1.2				
	Toluene (R/R0)		R.T , 30min ≤1.2				

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希望有機會全力配合, 共創美好未來