

# PRODUCT DATA SHEET

## DIGITAL PRINTING & SIGNAGE PANELS



### Digital Printing & Signage Panels

	Unit	2mm	3mm	4mm	6mm			
<b>► ALUMINIUM</b>								
Thickness of Aluminium	mm		0.20					
Aluminum thickness deviation	mm	±0.02	±0.02	±0.02	±0.02			
Alloy/ Temper		1100 H18, 3003 H22, 3105 H24, 5005 H32						
<b>► WEIGHT &amp; SIZE TOLERANCE</b>								
Panel Weight	Kg/m <sup>2</sup>	3.10	4.26	5.44	7.80			
Tolerance in length	mm	+/- 2	+/- 2	+/- 2	+/- 2			
Tolerance in width	mm	+/- 2	+/- 2	+/- 2	+/- 2			
Tolerance in thickness	mm	± 0.15	± 0.10	± 0.10	± 0.15			
<b>► TECHNICAL PROPERTIES</b>								
Section Modulus W	cm <sup>3</sup> /m	0.51	0.81	1.11	1.71			
Rigidity (Poisson's ratio $\mu = 0.3$ ) E.J	kNcm <sup>2</sup> /m	345	865	1620	3840			
Modulus of Elasticity	N/mm <sup>2</sup>		70,000					
Tensile Strength of Aluminium	N/mm <sup>2</sup>		Rm ≥ 145					
0.2% Proof Stress	N/mm <sup>2</sup>		Rp0.2 ≥ 100					
Elongation	%		A50 ≥ 2					
Linear Thermal Expansion	mm/m/°C		2.4 at 100°C Temp difference					
<b>► CORE</b>								
Light Density Polyethylene, LD-PE	g/cm <sup>3</sup>		0.92 - 0.95					
<b>► COATING</b>								
<b>Polyester (PPG, Xingwei, Beckers)</b>								
Thickness of coating	µm	≥17 to 21	≥17 to 21	≥17 to 21	≥17 to 21			
Surface		Coil Coating						
Color Variation Tolerance	%	ΔE ≤ 1.0						
Gloss (initial value)	%	20% - 95%						
Pencil Hardness		HB-F						
<b>► ACOUSTICAL PROPERTIES</b>								
Sound Absorption Factor $\alpha_s$	DB		0.05					
Sound Transmission Loss $R_w$		23	25	26	28			
Loss Factor d		0.0062	0.0072	0.0087	0.0138			
<b>► THERMAL PROPERTIES</b>								
Thermal Resistance R	m <sup>2</sup> K/W	0.0036	0.0069	0.0103	0.0172			
Heat Transition Coefficient U	W/m <sup>2</sup> K	5.98	5.65	5.54	5.34			
Temperature Range	°C	-50 to +80 Deg C						