

Digital Printing & Signage Panels

	Unit	2mm	3mm
ALUMINIUM			
Thickness of Aluminium	mm	0.15	
Aluminum thickness deviation	mm	±0.02	±0.02
Alloy/ Temper		1100 H18	
WEIGHT & SIZE TOLERANCE			
Panel Weight	Kg/m ²	2.85	4.05
Tolerance in length	mm	+/- 2	+/- 2
Tolerance in width	mm	+/- 2	+/- 2
Tolerance in thickness	mm	± 0.15	±0.15
TECHNICAL PROPERTIES			
Section Modulus W	cm ³ /m	0.51	0.81
Rigidity (Poisson's ratio $\mu = 0.3$) E.J	kNcm ² /m	345	865
Modulus of Elasticity	N/mm ²	70,000	
Tensile Strength of Aluminium	N/mm ²	Rm \geq 145	
0.2% Proof Stress	N/mm ²	Rp0.2 \geq 100	
Elongation	%	A50 \geq 2	
Linear Thermal Expansion	mm/m/°C	4.0 at 100°C Temp difference	
CORE			
Light Density Polyethylene, LD-PE	g/cm ³	1.15±0.05	
COATING Polyester (PPG , Nippon)			
Thickness of coating	μ m	\geq 16 to 17	\geq 16 to 17
Surface		Coil Coating	
Color Variation Tolerance		$\Delta E \leq 1.0$	
Gloss (initial value)	%	20% – 70%	
Pencil Hardness		HB-F	
THERMAL PROPERTIES			
Thermal Resistance R	m ² K/W	0.0038	0.0077
Heat Transition Coefficient U	W/m ² K	5.64	5.56
Temperature Range	°C	-40 to +80 Deg C	