

Digital Printing & Signage Panels

	Unit	2mm	3mm	4mm	6mm
ALUMINIUM					
Thickness of Aluminium	mm	0.30			
Aluminum thickness deviation	mm	±0.02	±0.02	±0.02	±0.02
Alloy/ Temper		1100 H18			
WEIGHT & SIZE TOLERANCE					
Panel Weight	Kg/m²	3.33	4.48	5.63	7.93
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
TECHNICAL PROPERTIES					
Section Modulus W	cm³/m	0.51	0.81	1.11	1.71
Rigidity (Poisson's ratio μ = 0.3) E.J	kNcm²/m	345	865	1620	3840
Modulus of Elasticity	N/mm²	70,000			
Tensile Strength of Aluminium	N/mm²	Rm ≥ 145			
0.2% Proof Stress	N/mm²	Rp0.2 ≥ 100			
Elongation	%	A50 ≥ 2			
Linear Thermal Expansion	mm/m/°C	4.0 at 100°C Temp difference			
CORE					
Light Density Polyethylene, LD-PE	g/cm³	1.15±0.05			
COATING					
		Polyester (PPG , Nippon, Valspar, Beckers)			
Thickness of coating	μm	≥17 to 21	≥17 to 21	≥17 to 21	≥17 to 21
Surface		Coil Coating			
T-Bending		2T			
Color Variation Tolerance		ΔE≤1.0			
Gloss (initial value)	%	20% - 95%			
Pencil Hardness		HB-F			
ACOUSTICAL PROPERTIES					
Sound Absorption Factor αs		0.05			
Sound Transmission Loss Rw	DB	23	25	26	28
Loss Factor d		0.0062	0.0072	0.0087	0.0138
THERMAL PROPERTIES					
Thermal Resistance R	m²K/W	0.0036	0.0069	0.0103	0.0172
Heat Transition Coefficient U	W/m²K	5.98	5.65	5.54	5.34
Temperature Range	°C	-40 to +80 Deg C			