

## Digital Printing & Signage Panels

	Unit	2mm	3mm	4mm	6mm
<b>ALUMINIUM</b>					
Thickness of Aluminium	mm	0.30			
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>	3.38	4.56	5.74	8.10
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 $\geq$ 145			
0.2% Proof Stress	N/mm <sup>2</sup>	Rp0.2 $\geq$ 100			
Elongation	%	A50 $\geq$ 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</b> (PPG , Nippon, Valspar, Beckers)					
Thickness of coating	$\mu$ m	$\geq$ 17 to 21	$\geq$ 17 to 21	$\geq$ 17 to 21	$\geq$ 17 to 21
Surface		Coil Coating			
T-Bending		2T			
Color Variation Tolerance		$\Delta E \leq 1.0$			
Gloss (initial value)	%	20% - 95%			
Pencil Hardness		HB-F			
<b>ACOUSTICAL PROPERTIES</b>					
Sound Absorption Factor $\alpha_s$		0.05			
Sound Transmission Loss $R_w$	DB	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			