

TECHNICAL DATA SHEET

Digital & sign panels

	UNIT	2 mm	3 mm	4 mm	6 mm
ALUMINIUM					
Thickness of Aluminium	mm	0,2 - 0,3	0,2 - 0,3	0,2 - 0,3	0,2 - 0,3
Alloy/Temper		AA1100 HI6 (3003/5005 Optional)			
WEIGHT & DIMENTIONAL TOLERANCES					
Panel Weight	Kg/m ²	2,7 - 3	3,80 - 4,10	4,90 - 5,20	7,10 - 7,40
Tolerance in Aluminium thickness	mm	± 0.02 mm			
Tolerance in panel thickness	mm	± 0.2 mm			
Tolerance in length	mm	± 2 mm			
Tolerance in width	mm	± 2 mm			
Diagonal	mm	± 2 mm			
Edge nonstraightness	mm/m	± 1 mm/m			
Warpage	mm/m	± 3 mm/m			
CORE					
Recycled Light Density Polyethylene LD-PE	g/cm ³	1.05 - 1.15			
SURFACE PROPERTIES					
Coating		Polyester			
Thickness of coating	µm	≥16			
T-Bending		2T no rift			
Color Variation Tolerance	%	≤2 %			
Gloss (initial value)	%	Matt: 35 % (± 3 %) Gloss: ≥80 %			
Pencil Hardness		≥H			
Reverse Strength Crosshatch		50 kg cm ² No pick off			
Boiling Water Resistance		Boiling for 2 hours No change			
Acid Resistance		Immerse surface in 5 %HCl for 24 hours No change			
Alkali Resistance		Immerse surface in 2 % NaOH for 24 hours No change			
Oil Resistance		Immerse surface in 20# engine oil for 24 hours No change			
Solvent Resistance		Clean 100 times with Dimethylbenzene No change			
ACOUSTICAL PROPERTIES					
Sound Absorption Factor α_s		0,05			
Sound Transmission Loss RW	DB	23	24	25	27
TECHNICAL PROPERTIES					
Linear Thermal Expansion	mm/m/°C	2.4 at 100 °C Temp difference			
Temperature Range	°C	from -50 to +70 °C			