

			DIGITAL PRINTING & SIGNAGE PANELS		
PANEL THICKNESS	STANDART	UNIT	3MM		
Thickness of Aluminium	DIN 1784	mm	0.25		
Aluminum thickness deviation	DIN 1784	mm	±0.02		
Weight		Kg/m ²	4.40		
Tolerance in length	DIN 16927 / ISO 11833-1	mm	+/- 2		
Tolerance in width	DIN 16927 / ISO 11833-1	mm	+/- 2		
Tolerance in thickness	DIN 16927 / ISO 11833-1	mm	± 0.10		
Diviation of Diagonals	DIN 16927 / ISO 11833-2	mm	+/- 3		
TECHNICAL PROPERTIES					
Section Modulus W	DIN 53293	cm ³ /m	0.81		
Rigidity (Poisson's ratio $\mu = 0.3$) E.J	DIN 53293	kNcm ² /m	865		
Alloy/ Temper Available			1100 H16/H18 or 3003 H22/H24 or 5005 H44		
Modulus of Elasticity	EN 1999 1-1	N/mm ²	70,000		
Tensile Strength of Aluminium	EN 485-2	N/mm ²	$R_m \geq 145$		
0.2% Proof Stress	EN 485-2	N/mm ²	$R_{p0.2} \geq 100$		
Elongation	EN 485-2	%	$A_{50} \geq 2$		
Linear Thermal Expansion	EN 1999 1-1	mm/m/°C	2.4 at 100°C Temp difference		
Core			A Grade PE		
Polyethylene, Type LDPE		g/cm ³	0.93 to 0.96		
Surface			3 Roller Coil Coating (Polyester XT)		
Coating			Polyester (PPG Trueform/ Valspar/ Beckers)		
Thickness of coating		μm	≥ 18 to 21		
Surface Tension (Dyne Pen Testing)			≥ 42		
Gloss (initial value)	ECCA T2	%	20% - 95%		
Pencil Hardness	ECCA T4		H		
Acoustical Properties					
Sound Absorption Factor α_s	ISO 354		0.05		
Sound Transmission Loss R_w	ISO 717-1	DB	24		
Loss Factor d	EN ISO 6721		0.0072		
Thermal Properties					
Thermal Resistance R	DIN 52612	m ² K/W	0.0069		
Heat Transition Coefficient U	DIN 4108	W/m ² K	5.23	5.65	
Temperature Range		°C	-50 to +80 °C		
Color Variation Tolerance	Polyester Mettallic Colors	ΔE	$\Delta E \leq 1.5$		
	Polyester Solid Colors	ΔE	$\Delta E \leq 2.0$		

