

Technical Data Sheet

PANEL THICKNESS:			2mm	3mm	4mm	6mm
Aluminium layer thickness		mm	0.30			
Panel Weight		[Kg/m²]	2.90	3.80	4.80	6.60
PANEL TOLERANCES						
Panel thickness		mm	±0.2 (within one sheet ±0.05)			
Panel width		mm	-0.00 / +4.00			
Panel length		mm	≤ 4000 mm : -0.0 / +4 4001 -6000 mm: -0.0 / +6 6001- 8000 mm: -0.0 / +10			
Diagonal difference		mm	3.00 mm			
TECHNICAL PROPERTIES						
Alloy/Temper of Aluminium cover sheet			EN AW- 3105/H44 or 4116/H44			
Modulus of Elasticity		E [N/mm²]	70000			
Tensile strength of Al. cover sheets		R _m [N/mm²]	150-200			
0.2% Proof stress		R _{p0.2} [N/mm²]	120 min			
Elongation		%	A ₅₀ ≥ 3%			
Linear Thermal Expansion			2.4 mm/m for Temperature difference of 100° C			
CORE:						
Density of Polyethylene, Type LDPE		[g/cm3]	0.92			
SURFACE PREPARATION and PAINT CHARACTERISTICS						
Visible Surface Preparation:			Pre-treatment of Aluminium : 1 st Degreasing 2 nd Chrome Free Passivation			
Lacquering			Coil Coating			
Upper Surface/ Lower Surface			● LUMIFLON- 3/ PVDF-3: 33 µm (Depending on colour shade), Tolerances according to EN 1396 ● PVDF-2 / LUMIFLON-2 : Target 30 µm, Tolerances according to EN 1396			
● Gloss			Polyester/Modified Polyester suitable for digital printing - System			
● Pencil Hardness			Semi gloss Target 35 % Tolerances according to EN 1396			
● Paint Thickness			High gloss Target >80% Tolerances according to EN 1396			
			Min H			
			Target 22 µm, Tolerances according to EN 1396			
TEMPERATURE BEHAVIOUR						
Operational temperature range			From -50° C to +80° C			
SURFACE QUALITY						
Dents, marks, hits, grooves, stains etc.			Acceptable when not visible at a distance ≥50 cm at an angle of 90°			
SURFACE BURNING CHARACTERISTICS						
COUNTRY:			Test According to		Classification	
Germany			DIN 4102-1		B2, etalbond d3 (2, 3) mm	
France			NFP 92-501		M2 (3mm)	
UK			BS 476, Part6 BS 476, Part7		Index 0 Class 1	
PROTECTIVE FILM						
Transparent unprinted on both sides with special adhesive suitable for digital printing. In exceptional cases, black/white unprinted can be used on top and/or bottom side. No UV protection for transparent			An area of 5 mm max, from each edge might be without protective film			

**Material before use should be stored inside away from direct sunlight.

***It is advisable to remove the protective film within 6 months after goods receipt. Beyond this period, there is a possibility that the protective film might leave remnants of adhesive on the surface