



Technical data sheet

Tubond® Digital aluminium composite panels with polyethylene core and 0,21mm aluminium layer, recommended for digital printing, single-sided panels, one side protective foil - the bottom layer of the aluminium is covered with a protective layer. Due to their structure the aluminium composite panels are characterized by exceptional material rigidity while maintaining low weight. These characteristics together with its ideally smooth surface, make this material broadly applied in advertising and printing. Due to the fact that our white panels have special polyester coating, we hereby guarantee that our panels will not fade, peel off paint and delaminate within 5 years.

Characteristics	Standard index	Method	Value / Thickness	
			2mm	3mm
DESIGNATION	Tubond® Digital			
PHYSICAL				
Aluminium thickness			0,21 mm	
Face finish			one side coating matt	
Weight			t2mm=3.15kg/m ²	t3mm=4,2-4,3kg/m ²
Core composite			PE	
Length			± 3mm	
Width			± 2mm	
Thickness			±0,2mm	
Diagonal			≤ 5mm	
Edge non-straightness			≤ 1 mm/m	
Warpage			≤ 5mm/m	
Standard width			1500/2000	
MECHANICAL				
Surface pencil hardness	≥H	ASTM D3363-00		
Coating thickness	2 coating ≥25 um 3 coating ≥ 35 um			



T-Bending	2T no rift	ASTM 4145		
Impact resistance	no cracing	ASTM D2794 (50kg.cm)		
Adhesive force	0.85kgf/mm			
Minimal bending radius	45mm 70mm			
THERMAL				
Temperature resistance	-50°C to 70°C			
Thermal expansion	2.4mm/m by 100°C temperature difference			
Thermal deformation temperature	115°C	ASTM D 648		
CHEMICAL RESISTANCE				
Boiling water resistance	after 2h in boiling water no change			
Chemical resistance: - muriatic acid 5% HCL 24 hrs - sodium hydroxide 5% NaOH 24h	no change	ASTM D 308		
Solvent resistance	no change	ASTM D 2248 (100times)		
Humidity resistance	no change	ASTM D 2247-02 ASTM D 714 (4000hrs)		
FLAMMABILITY				
Fire propagation	qualified	ASTM E84		
OTHER				
Sound insulation	27 acc.	ASTM E413		
Water resistance	passed	ASTM E331		