



Technical Data Sheets

Xbond®, aluminium layer 0,21 MM

Xbond® aluminium composite panels with polyethylene core and 0,21mm aluminium layer. Specially recommended for 2D applications. 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 as well as in many other similar fields. Due to the fact that our white panels have special polyester coating we hereby guarantee that our panels are specially dedicated for digital and screen printing.

Characteristics	Standard index	Method	Value / Thickness
			3mm
DESIGNATION	Xbond®		
PHYSICAL			
Aluminium thickness			0,21 mm
Face finish			matt/primer matt / silver brushed / primer
Weight			t3mm=3,70kg/m2
Core composite			PE
Length			± 3mm
Width			± 2mm
Thickness			±0,2mm
Diagonal			≤ 3mm
Edge non-straightness			90
Warpage			≤ 4mm/m
Standard width			1500
MECHANICAL			
Surface pencil hardness	≥H	ASTM D3363-00	



Coating thickness	≥ 17 micron		
T-Bending	2T no rift	ASTM 4145	
Impact resistance	no cracking	ASTM D2794 (50kg.cm)	
Adhesive force	5.6N/MM		
Minimal bending radius	170mm	ASTM D790	
THERMAL			
Temperature resistance	-50°C to 80°C		
Thermal expansion	4-28	ASTM D696	
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 24 hrs	no change	ASTM D 308	
Solvent resistance	no change	ASTM D 2248 (100 times)	
Humidity resistance	no change	ASTM D 2247-02 ASTM D 714 (4000hrs)	
FLAMMABILITY			
Fire propagation	qualified	ASTM E84	
OTHER			
Sound insulation	25	ASTM E413	
Water resistance	passed	ASTM E331	