



# TITANBOND

## Technical data sheet

### Physical Properties ACCP PANEL

S.R. NO	TEST PARAMETERS	TEST METHODS	UNITS	RESULTS
1	Panel coating thickness	ASTM D 7091	um	25-27 (twoCoat)
2	Panel thichness	Visual	mm	4
3	Panel weight	Visual	Kg/m2	4.1
4	Panel density	ASTM D-1505	g/cm3	1
5	Tensile strength	ASTM E 8	MPa	50.6
6	proof stress 0.2%	ASTM E 8	MPa	45
7	elongation%	ASTM E 8	%	9.2
8	Peel strength top side	ASTM D 903	N/mm	8.5
9	Peel strength back side	ASTM D 903	N/mm	6.8
10	Flexure strength	ASTM D 790	MPa	65.8
11	Flexural modulus	ASTM D 790	MPa	14115
12	Punch shear test	ASTM D 732	N/mm2	20.5

### Physical Properties Aliminum Skin

S.R. NO	TEST PARAMETERS	TEST METHODS	UNITS	RESULTS
1	Skin thickness	Visual	mm	0.50
	Top coil thickness			
	Bottom coil thickness			
2	Tensile strength	ASTM E 8	MPa	176.5
	Top coil thickness			
	Bottom coil thickness			
3	Elongation	ASTM E 8	%	7.65
	Top coil thickness			
	Bottom coil thickness			
4	proof stress 0.2%	ASTM E 8	MPa	170
	Top coil thickness			
	Bottom coil thickness			

### Paint Finish & Test Properties

S.R. NO	TEST PARAMETERS	TEST METHODS	UNITS	RESULTS
1	Lacquering - PVDF	Chemicals		KYNAR 500 PVDF , passes
2	Taber abrasion test CS-17 wheels,1Kg load cycles 1000	ASTM D 4060	mg	4
3	( Adhesion (cross hatch dry wet (50 C, 20 min	ASTM D 3359	B	4.1
4	( Adhesion (cross hatch	ASTM D 3359	B	1
5	Hardness - pencil	ASTM D 3363	B/H	50.6
6	Water absorption test	ASTM D 570	%	45
7	Gloss at 60	ASTM D 523		9.2
8	Impact test (front & reverse)	ASTM D 2794	Joules	8.5
9	Bending strength	ASTM D 522		6.8

### Acoustical Properties

S.R. NO	TEST PARAMETERS	TEST METHODS	UNITS	RESULTS
1	Sound absorption factor	ISO 354		0.05
2	Sound transmission loss	ASTM E90	d B	25

### Thermal Properties

S.R. NO	TEST PARAMETERS	TEST METHODS	UNITS	RESULTS
1	Thermal resistance	ASTM C 1363	m2 K/W	0.24
2	Linear thermal expansion	ASTM d 696	mm/M C 100	2.4
3	Temperature resistance		C	C to 80 C 50(-)

### Fire Properties

S.R. NO	TEST PARAMETERS	TEST METHODS	UNITS	RESULTS
1	Reaction to fire	EN 13501 -1		A2- s1, d0

### Panel Dimension

Standerd Size	1250mm*2400mm	1250mm*3200mm	1250mm*3200mm
Panel Thickness	4mm	5mm	6mm
Skin Thickness	0.45 mm to 1 mm		

### Fire Test To Building Material

building glass material		Designation
Class A	A 1	Non-Compositble Material
	A 2	Not Easily Flammable
Class B	B 1	Flammable
	B 2	Easily Flammable
	B 3	