



fitur

fitur Premium Aluminium Composite panel

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MANUFACTURED TO HIGHEST QUALITY STANDARD OF ISO9001 & ISO14001 ACCREDITED FACILITY

fitur
fitur **BOND** ALUMINIUM COMPOSITE



HIGH IMPACT RESISTANCE



ENVIRONMENT FRIENDLY



SMOOTH SURFACE & UNLIMITED COLOR VARIETY



ECONOMICAL & EASY INSTALLATION



EASY MAINTENANCE



NOISE ABSORBING

DISTRIBUTOR:

NATIONAL RESEARCH CENTER OF TESTING TECHNIQUES FOR BUILDING MATERIALS

Test type: sampling test

Sample description: aluminium plastic composite panel

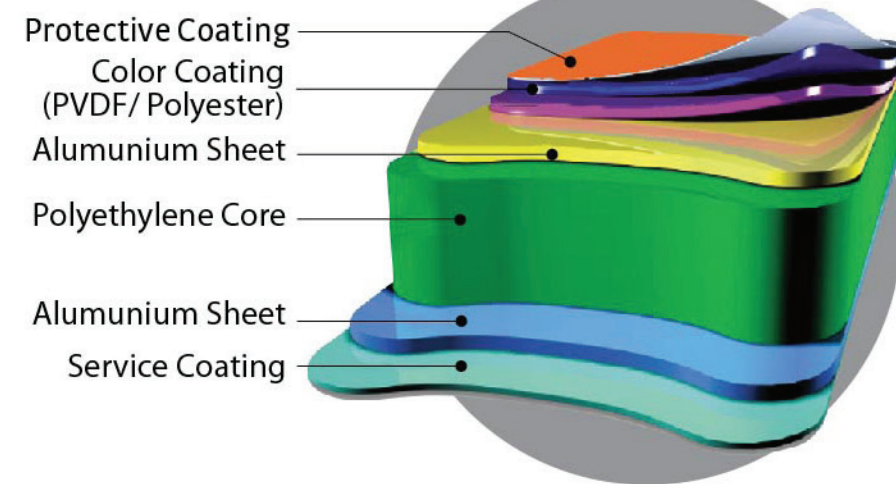
No	Test Item	Standard Index	High class	INDOOR (PE)		OUTDOOR (PVDF)		Single Item
				Test Value	Single Item	Test Value	Single Item	
01	vestige coating omit	indistinct	not allowed	indistinct	high class	not allowed	not allowed	pass
	ripples	not allowed	not allowed	no	high class	not allowed	not allowed	pass
	ripples ≤ 10mm	indistinct	indistinct	no	high class	no	no	pass
	flaw ≤ 3mm	not allowed	≤ 1pc/m ²	no	high class	no	no	pass
	abrasion	not allowed	≤ 3pc/m ²	no	high class	not allowed	not allowed	pass
	scratch	not allowed	total length ≤ 100mm/m ²	no	high class	not allowed	not allowed	pass
	total number of abrasion & scratch	not allowed	total area ≤ 300mm/m ²	no	high class	not allowed	not allowed	pass
02	aberration	indistinct	indistinct	indistinct	high class	indistinct	no	pass
	length	+/-3mm	+/-3mm	0 ~ +1.5mm	eligible	+/-3mm	0 ~ +2.1mm	pass
	width	+/-2mm	+/-2mm	-0.4mm ~ +1.2mm	eligible	+/-2mm	-0.5mm ~ +1mm	pass
	thickness	+/-0.2mm	+/-0.2mm	0.02 ~ 0.08mm	eligible	+/-0.2mm	0.03 ~ 0mm	pass
	squares	≤ 5mm	≤ 5mm	1.2mm	eligible	≤ 5mm	0.38mm/m	pass
03	edge straightness	≤ 1mm/m	≤ 1mm/m	0.3mm/m	eligible	≤ 1mm/m	0.38mm/m	pass
04	warpage	≤ 5mm/m	≤ 5mm/m	1.2mm/m	eligible	≤ 5mm/m	1.2mm/m	pass
	coating thickness	min ≥ 16µm	min ≥ 16µm	18µm	eligible	avg ≥ 25µm, min ≥ 23µm	avg 28µm, min 27µm	pass
	gloss tolerance	≤ 10gloss < 70	≤ 5gloss < 70	2.5, gloss 29.1	eligible	≤ 10	tolerance 0.6	pass
05	pencil hardness	≥ HB	≥ 3T	3H	eligible	≥ HB	2H	pass
06	coating flexibility	not lower than class 1	50kg/cm	2T	eligible	≥ 2T	2T	pass
07	coating adhesive	no depaneling	no depaneling	1 class 1	eligible	0 class 0, 1 class 1	0 class 0, 1 class 1	pass
08	impact resistance	no crack	no crack	50kg/cm	eligible	no crack	50kg/cm	pass
09	boiling water resistance	no change	no change	no crack	eligible	no crack	no depaneling	pass
10	acid resistance	no change	no change	no change	eligible	no abnormality	no abnormality	pass
11	alkaline resistance	no change	no change	no change	eligible	no abnormality ΔE ≤ 2	no change	pass
12	oil resistance	no change	no change	no change	eligible	no change	no change	pass
13	solvent resistance	no change	no change	no change	eligible	no change	no change	pass
14	scrub resistance	≥ 10000, no change	when ≥ 10000times	10000, no change	eligible	no base exposed	no base exposed	pass
15	face density	when ≥ 10000times	3.88 kg/m ²	3.88 kg/m ²	eligible	no abnormality	no abnormality	pass
16	bending strength	≥ 60 Mpa	≥ 60 Mpa	73.8Mpa	eligible	≥ 7KN	3.2X10 ⁴ Mpa	pass
17	bending elastic modulus	≥ 15 x10 ⁴ Mpa	≥ 15 x10 ⁴ Mpa	2X 10 ⁴ Mpa	eligible	≥ 2X 10 ⁴ Mpa	8.4KN	pass
18	penetrating resistance	≥ 5KN	5KN	5KN	eligible	≥ 7KN	8.4KN	pass
19	shearing strength	≥ 20Mpa	20Mpa	21Mpa	eligible	≥ 26Mpa	26.8Mpa	pass
20	180degree peel strength	≥ 5N/mm	6.07N/mm	6.07N/mm	eligible			pass
21	temperature difference resistance	no change	no change	no change	eligible			pass
22	thermal expansion coefficient	≤ 4 X 10 ⁻⁵ C ⁻¹	≤ 4 X 10 ⁻⁵ C ⁻¹	105 X 10 ⁻⁵ C ⁻¹	eligible			pass
23	heat distortion temperature	≥ 95C	104C	104C	eligible			pass
24	decrease rate of peel strength				eligible			pass
25	peel strength				eligible			pass
26	coating adhesion				eligible			pass
27	appearance				eligible			pass
28	4000h salt spray resistance				eligible			pass
29	colour uniformity				eligible			pass
30	degradation of gloss				eligible			pass
31	others				eligible			pass

Conclusion: According to GB/T 17748-1999, all the tested items are satisfied with high class

According to GB/T 17748-2008, all the tested items are satisfied with requirements of two coating systems

standard SPECIFICATION

Thickness
[3mm][4mm]
 Size
[1220mm x 2440mm]
[1220mm x 4880mm]
 Other Width Available :
[1500mm, 2000mm]
 Aluminium Thickness
[0.21mm, 0.3mm, 0.4mm, 0.5mm]



● MC-801 PURE WHITE (PE, PVDF)	● MC-802 IVORY WHITE (PE)	● MC-803 BLACK (PE, PVDF)
● MC-804 METALLIC BLACK (PE)	● MC-805 METALLIC SILVER (PE, PVDF)	● MC-806 BRIGHT SILVER (PE, PVDF)
● MC-807 GREY (PE)	● MC-808 LIGHT GREY (PE)	● MC-809 GREY RAL (PE)

● MC-810 ORANGE (PE, PVDF)	● MC-811 DARK ORANGE (PE)	● MC-812 CHINA RED (PE, PVDF)
● MC-813 LEMON (PE, PVDF)	● MC-814 SEA BLUE (PE, PVDF)	● MC-815 LIGHT GREEN (PE)
● MC-816 DARK GREEN (PE)	● MC-901 WHITE GLOSS (PE)	● MC-902 BLACK GLOSS (PE)
● MC-903 RED GLOSS (PE)	● MC-904 YELLOW GLOSS (PE)	● MC-905 BLUE GLOSS (PE)
● MC-906 GREEN GLOSS (PE)	● MC-907 LIGHT GREEN GLOSS (PE)	● MC-908 DARK BLUE (PE)

● MC-909 IVORY WHITE GLOSS		

FABRICATING METHOD

Sawing
 MC Bond® can be cut utilizing saw for wood or steel.
 Recommended to use "hard alloy" blade.



Grooving
 Remember to leave 0.2 - 0.4 mm ethylene core & 1 aluminium sheet during V-Grooving.
 Recommended V Groove angle : 100°

