

Technical specification sheet

Ball & Doggett
ballanddoggett.com.au



Product: MasterBond

Category: Sign, Display & Digital - Rigid

Panel thickness		3 mm
Thickness of <u>Aluminium</u> Layers (mm)		0.2
Technical Properties	Section Modulus W (cm^3/m)	0.54
	Rigidity (Poisson's ratio $\mu = 0.3$)	865
	E·I (kNcm^2/m) Alloy of Aluminium Layers	1100
	Modulus of Elasticity (N/mm^2)	69'000
	Tensile Strength of Aluminium (N/mm^2)	140-180 Rp0.2
	0.2% Proof Stress (N/mm^2)	105 – 170
	Elongation (%)	$\geq A50$
Core	Polyethylene, LDPE (g/cm^3)	1.25
Surface	Paint Thickness(micron)	18-20 μm
	Toughness of coating	3T
	Pencil Hardness	2H
	Temperature Resistance Impact	-40...+80
	Strength(Kg/cm^2) Boiling	50kg/cm2
	Water Resistance	2hrs. No change
	Acid Resistance	2% HCL, 24hrs on change
	Alkali Resistance	2% NaOH, 24hrs on change
	Oil Resistance	20# engine oil, no change
	Solvent Resistance Cleaning	200 times by MEK
	Resistance Peel Strength 180 °	>1000 times without change >5
	C	Newton/mm

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Conversion ⁺

- | | |
|---|---|
| ☐ Flat bed cutters | ☐ Cold overlaminating |
| ☐ Friction fed cutters | ☐ Aqueous |
| ☐ Die cutting | ☐ Latex |
| ☐ Thermal transfer | ☐ Eco Solvnt |
| ☐ Screen printing | ☐ Solvent |
| ☐ Offset printing | ☒ UV Inkjet |

⁺Always test with your combination of printer and inks prior to commercial use.

Sheet Size

1220 x 2440mm, White Matt /White Gloss 3mm (0.2skin)	134494
1220 x 2440mm, White Matt /White Matt 3mm (0.2skin)	134492
1220 x 2440mm, Black Gloss /White Matt 3mm (0.2skin)	136892
1220 x 2440mm, White Matt /Primer 3mm (0.2skin)	139583
1220 x 2440mm, Primer /Primer 3mm (0.2skin)	149598
1220 x 2440mm, White Gloss /Primer 3mm (0.2skin)	139584

Common Applications

- | | |
|---------------------|------------------------------|
| Sign Making | Food Truck /Campervan panels |
| Shop Front | Building panels |
| Interior Decoration | |
| Exhibition Stand | |
| POS Display | |