

Weight	Thickness (mm)		Size (mm)		Mass (kg/sheet)*	Density (± 10%)
	6		1220 x 2440		18 kg	1000kg / m³
	9		1220 x 2440		27 kg	1000kg / m³
	12		1220 x 2440		36 kg	1000kg / m³
	15		1220 x 2440		45 kg	1000kg / m³
	18		1220 x 2440		54 kg	1000kg / m³
Thickness tolerance (un-sand)	± 0.3mm (6mm & 9mm)		± 0.5 mm (12mm, 15mm & 18mm)			
Length	± 1.5mm					
Width	± 1.5mm					
Squareness	≤3mm diagonal difference					
Bonding Agent	PalmEco is odourless and bonding agent is free from formaldehyde					
Fire Rating	Test to BS476 part 4 1970 and non-combustible, Class A1 (GB8624-2006) (similar to US & Canada / US ASTM E136-non-combustible), ASTM E119 – 2 hrs					
Water Absorption	4.46% (ASTM C473, Class 20), 23.89% (ASTM C1185 - 08 Class 9), ≤ 20% (GB/T33544-2017)					
Sound Insulation	6mm - Frequency 4200 (Hz), SRI 35 (dBm) 9mm - Frequency 4200 (Hz), SRI 35 (dBm) 12mm- Frequency 4200 (Hz), SRI 33 (dBm)					
Dimensional Stability	Thickness swelling after 24 hours immersion Thickness after freeze/thaw test Moisture exposure elongation rate (12mm) Heat exposure deformation rate					0.2% - 0.1% 0.12-0.14 (CN14164-1208) ≤ 0.2%
Mechanical & Physical Properties	Density Flexural strength* (ASTM C473, Clause 11) * 12 mm					1000 kg/m³ (±10%) 9.74-10.44 Mpa
	6mm	9mm	12mm	15mm	18mm	GB/T 33544-2017
Flexural strength ≥	16 Mpa	14 Mpa	12 Mpa	10 Mpa	9 Mpa	≥ 16Mpa - 9Mpa (±10%)
Loading strength ≥	400N	750N	1200N	1550N	2000N	≥ 400N – 2000N (±10%)
	Moisture content					≤ 12%
	Moisture exposure expansion rate (GB/T 17657-1999)					≤ 0.2%
	Surface alkalinity					8-9pH
	Thermal conductivity					0.124w/mk
Water Endurance Test	No bloating on reverse side		Rate of shrinkage Occurrence of breakage			≤0.3% (GB / T7019) Level 0 (GB17657)
Biological Resistance	Rodent resistance Termite resistance Resistance to bacteria Resistance to mildew growth					Highly resistant No damage Highly resistant No growth

Remarks

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(Issued: 20191201. Appendix 2 - Composite specialties Pty Ltd.) www.Palmecotech.com