

econiclay Covering Data Sheet

Details		Result	
Singapore Green Label		Eco-friendly building material	
Carbon Footprint Certificate for Zero Carbon Coverings		Greenhouse Gas emission in life cycle of 1 kg	
Reaction to Fire Test		Classification: A	
Light Ageing Test-UV Exposure	ASTM G154-12a Cycle1 ASTM D2244-154 ASTM 2616-12	Gray Scale 4.0 ΔE^*_{ab} 2.6	
Resistance to Freeze-Thaw Cycling	ASTM C1026-13(2018)	Number of damaged specimens:0 Total weight loss:0.34%	
Absorption and Bulk Specific Gravity	ASTM C97/C97M-18	Absorption:8.02% Bulk Specific Gravity: 1.892	
Scrub Resistance	ASTM D2486-17 Method A	No substrate exposed after 4000 cycles	
Water absorption		after soaked for 48h, no crack and spalling on the surface of the sample, comparing with non-soaked part, no obvious discoloration	
Flexibility		No Crack on the sample with 200mm diameter cylindrical bending	
Temperature Variability		No crack and spalling, and no significant color change after 5 cycle test	
Stain resistance		Level 1	Qualified
Wet Steam Flow Density		2.59	Qualified
Artificial Aging Resistance (1000h&3500h)		No Crack and Spalling	
		$\leq$ Level1	Qualified
		$\leq$ Level2	Qualified
Release of vinyl chloride monomer(VCM)	EN 15102:2007+A1:2011-4.3.2	PASS	
Heavy metals and specific elements	EN 15102:2007+A1:2011-4.3.1	PASS	
Release of formaldehyde	EN 15102:2007+A1:2011-4.2	PASS	
Surface quality	Perforate crack or hole, layering	No perforate crack and	PASS
	Chipped edge, arris defect, hole, blister, color difference	No obvious flaw and color difference	PASS
Heat resistance	Rate of dimensional change	0.40%	PASS
	Surface	No tacky, no blister	PASS
Residual indentation		0.17 mm	PASS
Abrasion resistance		0.14 g	PASS
Skid resistance		0.75	PASS
Dirt pickup resistance		1 rank	PASS
Environmental Product Declaration (EPD)		PASS	
Life Cycle Assessment		PASS	
French VOC Regulation		Class:A	