


# Decoration Board(UH55) Technical Sheet

Model	Photo	Dimension
UH55		56.0×30.5 mm (2.2×1.2 in)

NO.	Property	Test Method	Test results	Remark
1	Brinell hardness	EN15534	8.2N/mm <sup>2</sup>	
2	Boiling test	EN15534	Water absorption in weight: 2.39%	
3	Bond Strength	EN319	Average Bond Strength>2.3MPa No obvious abruption and damage after test	
4	Coefficient Linear Thermal Expansion	ASTM D696	35.6×10 <sup>-6</sup> mm/mm °C	
		EN15534	34.0×10 <sup>-6</sup> K <sup>-1</sup>	
5	Degree of chalking	EN15534	Rating 0, no chalking	
6	Fire Resistance	ASTM E84	Flame Spread Index(FSI): 85 Smoke Developed Index(SDI): 300	
7	Formaldehyde Content	EN717-1	Non Detected	
		ASTM D6007-14	Non Detected	
8	Heavy Metal Content	EPA3051	Sb: ND, As: ND, Se: ND, Sn: ND	
9	Heat reversion	EN15534 EN479	0.13% (Test temperature: 100°C)	
10	Heat build-up	EN15534	ΔT=-3.1°C	

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11	Lead Content Test	EUNo.628/2015	Non Detected	
12	Mould Resistance	ASTM G21	Rating 0	
13	Moisture Content	EN15534 EN322	0.83%	
14	Neutral salt spray test	ASTM B117-2011	After 200 hours tests, there was no visible change appeared on the surface: Front surface: $\Delta E^*=1.22$ , Grey Scale: 4-5 Back surface: $\Delta E^*=1.06$ , Grey Scale: 4-5	
		EN15534 ISO9227	$\Delta E^*=1.42$ , Grey Scale=4 (Exposure 96h)	
15	Pb, Cd, Hg, Cr6+	RoHs-IEC62321	Pb: ND, Cd: ND, Hg: ND, Cr <sup>6+</sup> : ND	
16	Resistance to scratch test	ISO4586-2	Rate 2	
17	Resistance to artificial weathering	EN15534 ISO4892-2	After 2000h exposure $\Delta E^*=1.09$ , Grey Scale=4-5	
18	Rockwell Hardness	ASTM D785	78.7R	
19	Swelling and water absorption (24hours immersion)	EN15534	①Swelling: 0.15% in thickness, 0.02% in width, 0.02% in length. ②Water absorption: 0.79%	
20	Swelling and water absorption (28days immersion)	EN15534	①Swelling: 0.93% in thickness, 0.16% in width, 0.12% in length. ②Water absorption: 3.23%	
21	SRI Testing	ASTM C1549, ASTM C1371, ASTM E1980	19	
22	Thermal Resistance	ASTM C518-2010	Thermal conductivity: 0.1589W/(m·k) Thermal resistance: 0.0830(m <sup>2</sup> ·K)/W	
23	VOC&TVOC	ASTM D5116-11	Non Detected	
24	Water absorption	ASTM D1037-12B (24h)	Water absorption(24h): 0.72%	