

Fence Board(UH78) Technical Sheet

Model	Photo	Dimension
UH78		160 x 21 mm (6.3 x 0.8 in)

NO.	Property	Test Method	Test results	Remark
1	Abrasion resistance	ASTM D4060-10	33mg(1000cycles)	
2	Brinell hardness	EN15534	8.2N/mm ²	
3	Boiling test	EN15534	Water absorption in weight: 1.10%	
4	Bond Strength	EN319	Average Bond Strength>2.3MPa No obvious abruption and damage after test	
5	Coefficient Linear Thermal Expansion	ASTM D696	38.9×10 ⁻⁶ mm/mm℃	
		EN15534	32.2×10 ⁻⁶ K ⁻¹	
6	Content of pentachlorophenol	CE (EN14041(2004))	2.99ppm	
7	Degree of chalking	EN15534	Rating 0, no chalking	
8	Falling mass impact resistance	EN15534	Max Crack length(mm): No crack. Max Residual Indentation(mm): 0.14	
9	Formaldehyde Content	EN717-1	Non Detected	
		ASTM D6007-14	Non Detected	
10	Heavy Metal Content	EPA3051	Sb: ND, As: ND, Se: ND, Sn: ND	
11	Heat reversion	EN15534 EN479	0.17% (Test temperature: 100℃)	

NO.	Property	Test Method	Test results	Remark
12	Heat build-up	EN15534	$\Delta T = -2.7^{\circ}\text{C}$	
13	Impact Resistance	ASTM D4226	MFE>396J	
14	Lead Content Test	EUNo.628/2015	Non Detected	
15	Mould resistance	ASTM G21	Rating 0	
16	Moisture Content	EN15534 EN322	0.83%	
17	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)	
18	Pb, Cd, Hg, Cr ⁶⁺	RoHs-IEC62321	Pb: ND, Cd: ND, Hg: ND, Cr ⁶⁺ : ND	
19	Resistance to scratch test	ISO4586-2	Rate 2	
20	Resistance to artificial weathering	EN15534 ISO4892-2	After 2000h exposure $\Delta E^* = 1.09$, Grey Scale=4-5	
21	Rockwell Hardness	ASTM D785	78.7R	
22	Swelling and water absorption (24hours immersion)	EN15534	① Swelling: 0.06% in thickness, 0.03% in width, 0.03% in length. ② Water absorption: 0.49%	
23	Swelling and water absorption (28days immersion)	EN15534	① Swelling: 0.78% in thickness, 0.07% in width, 0.12% in length. ② Water absorption: 1.66%	
24	SRI Testing	ASTM C1549 ASTM C1371 ASTM E1980	19	
25	Thermal Resistance	ASTM C518-2010	Thermal conductivity: 0.1589W/(m·k) Thermal resistance: 0.0830(m ² ·K)/W	
26	UV Weathering test	ASTM G154	After 3000 hours test, Grey Scale3, $\Delta E^* = 3.56$	
27	VOC&TVOC	ASTM D5116-11	Non Detected	
28	Water absorption	ASTM D1037-12B(24h)	Water absorption(24h): 0.2%	