Coastal Decking Technical Sheet

Model	Photo	Dimension
US54C **G9 finish: Y70**		210 × 22.5mm
US54C **G9 finish: Y83**		210 × 22.5mm

NO.	Property	Test Method	Test results	Remark
1	Abrasion resistance	ASTM D4060	28.4mg(1000cycles)	
2	Brinell hardness	EN15534	8.2N/mm^2	
3	Boiling test	EN15534	Water absorption in weight: 0.49%	
4	Bond Strength	EN319	Average Bond Strength>2.3MPa No obvious abruption and damage after test	
5	Coefficient Linear Thermal Expansion	ASTM D696	35.6×10^{-6} mm/mm °C	
		EN15534	34.0 × 10^{-6}K^{-1}	
6	Content of pentachlorophenol	EN14041	Non-Detected	
7	Creep Recovery	ASTM D7032	Creep Recovery after 24h: 82.2%	

NO.	Property	Test Method	Test results	Remark
8	Degree of chalking	EN15534	Rating 0, no chalking	
9	Fire Resistance	ASTM E84	Flame Spread Index (FSI): 85 Smoke Developed Index (SDI): 300	
		EN13501-1 EN ISO9239-1 EN ISO11925-2	Reaction to fire classification: Cfl-s1	
		AS1530.8.1.2007	BAL29	
		AS/NZS 1530.3.1999	Ignitability Index: 13 Range 0-20 Spread of Flame Index: 6 Range 0-10 Heat Evolved Index: 4 Range 0-10 Smoke Developed Index 3 Range 0-10	
10	Falling mass impact resistance	EN15534	Max Crack length(mm): No crack. Max Residual Indentation(mm): 0.14	
11	Formaldehyde Content	EN717-1	Non-Detected	
		ASTM D6007	Non-Detected	
12	Flexural properties	ASTM D6109	MOR: 22.7MPa, MOE: 3283.6MPa	Span:400mm
		EN15534	Bending Strength: 23.9Mpa, Modulus of elasticity: 3.01Gpa, Maximum load: 4163N, Deflection at 500N: 1.27mm	Span:400mm
		ICC-ES AC174	Load at rupture: 6997N Flexural strength: 25.0MPa Flexural stiffness: 2616MPa	Span:400mm
13	Heavy Metal Content	EPA3051	Sb: ND, As: ND, Se: ND, Sn: ND	
14	Heat reversion	EN15534 EN479	0.20% (Test temperature: 100°C)	
15	Heat build-up	EN15534	△T=-3.1°C	
16	Impact Resistance	ASTM D4226	MFE>396J	
17	Lead Content Test	EUNo.628/2015	Non-Detected	

NO.	Property	Test Method	Test results	Remark
18	Mould resistance	ASTM G21	Rating 0	
19	Moisture Content	EN15534 EN322	0.50%	
20	Neutral salt spray test	ASTM B117-2011	After 200 hours of tests, there was no visible change appearing on the surface: Front surface: △E*=1.22, Grey Scale: 4-5 Back surface: △E*=1.06, Grey Scale: 4-5	
		EN15534 ISO9227	△E*=1.42, Grey Scale=4 (Exposure 96h)	
21	Pb, Cd, Hg, Cr6+	RoHs-IEC62321	Pb: ND, Cd: ND, Hg: ND, Cr^{6+}: ND	
22	Resistance to scratch test	ISO4586-2	Rate 2	
23	Resistance to artificial weathering	EN15534 ISO4892-2	After 2000h exposure △E*=1.09, Grey Scale=4-5	
24	Rockwell Hardness	ASTM D785	78.7R	
25	Slip Resistance	AS/NZS4586	Wet Pendulum test: Rating: P5	Pattern: Y70
		AS/NZS4586	Wet Pendulum test: Rating: P2	Pattern: Y83
26	Swelling and water absorption (24hours immersion)	EN15534	①Swelling: 0.08% in thickness, 0.01% in width, 0.02% in length. ②Water absorption: 0.10%	
27	Swelling and water absorption (28days immersion)	EN15534	①Swelling: 0.84% in thickness, 0.03% in width, 0.04% in length. ②Water absorption: 1.15%	
28	SRI Testing	ASTM C1549, ASTM C1371, ASTM E1980	19	
NO.	Property	Test Method	Test results	Remark

29	Thermal Resistance	ASTM C518	Thermal conductivity: 0.1589W/(m·k) Thermal resistance: 0.0830(m^2·K)/W	
30	Thermal Conductivity	EN14041	0.19738W/m·K	
31	UV Weathering test	ASTM G154	After 3000 hours test, Grey Scale 4-5, △E*=1.42	
32	Uplift Resistance	ICC-ES AC174 ASTM E330	Average ultimate load ≥427psf	
33	VOC&TVOC	ASTM D5116	Non-Detected	