Decking Avenue Technical Sheet

Model	Photo	Dimension
US92		138×29mm (5.4×1.1 in)

NO.	Property	Test Method	Test results	Remark
1	Abrasion resistance	ASTM D4060-10	28.4mg (1000cycles)	
2	Boiling test	EN15534	Water absorption in weight: 0.50%	
3	Coefficient Linear Thermal Expansion	ASTM D696	35.6×10^{-6} mm/mm °C	
		EN15534	$34.0\times10^{-6}K^{-1}$	
4	Degree of chalking	EN15534	Rating 0, no chalking	
5	Falling mass impact resistance	EN15534	Max Crack length(mm): No crack. Max Residual Indentation(mm): 0.14	
6	Formaldehyde Content	EN717-1	Non Detected	
		ASTM D6007-14	Non Detected	
7	Flexural properties	ASTM D6109	Bending Strength: 15.6Mpa, Modulus of elasticity: 3.44Gpa, Maximum load: 4424.2N, Deflection at 500N: 0.88mm	Span:400mm
8	Heavy Metal Content	EPA3051	Sb: ND, As: ND, Se: ND, Sn: ND	
9	Heat reversion	EN15534 EN479	0.14% (Test temperature: 100°C)	

NO.	Property	Test Method	Test results	Remark
10	Lead Content Test	EUNo.628/2015	Non Detected	
11	Mould resistance	ASTM G21	Rating 0	
12	Moisture Content	EN15534 EN322	0.58%	
13	Neutral salt spray test	ASTM B117-2011	After 200 hours tests, there was no visible change appeared on the surface: Front surface: △E*=1.22 , Grey Scale: 4-5 Back surface: △E*=1.06 , Grey Scale: 4-5	
		EN15534 ISO9227	$^{\triangle}$E*=1.42 , Grey Scale=4 (Exposure 96h)	
14	Pb, Cd, Hg, Cr6+	RoHs-IEC62321	Pb: ND, Cd: ND, Hg: ND, Cr^{6+}: ND	
15	Resistance to artificial weathering	EN15534 ISO4892-2	After 2000h exposure $^{\triangle}$E*=1.09, Grey Scale=4-5	
16	Rockwell Hardness	ASTM D785	78.7R	
17	Slip Resistance	DIN51130	Oil-wet ramp test: Rating: R10	
18	Swelling and water absorption (24hours immersion)	EN15534	①Swelling: 0.24% in thickness, 0.01% in width, 0.01% in length. ②Water absorption: 0.12%	
19	Swelling and water absorption (28days immersion)	EN15534	①Swelling: 0.79% in thickness, 0.04% in width, 0.03% in length. ②Water absorption: 0.86%	
20	SRI Testing	ASTM C1549, ASTM C1371, ASTM E1980	19	
21	VOC&TVOC	ASTM D5116-11	Non Detected	