Akua Rigid 6mm

Nr	Technical Items	Norm	Test Method	Requirement	Test Results	Conclusion
1	Thickness	EN 16511	ISO 24337:2006	△tavg≤ 0.50 mm	6.0 mm	Pass
2	Length	EN 16511	ISO 24337:2006	△l ≤ 0.5 mm	1220 mm	Pass
3	Width	EN 16511	ISO 24337:2006	△Wavg≤ 0.10 mm	181 mm	Pass
4	Squareness	EN 16511	ISO 24337:2006	qmax≤ 0.20 mm	qmax = 0.05 mm	Pass
5	Straightness	EN 16511	ISO 24337:2006	Smax≤ 0.30 mm/m	Smax = 0.05 mm/m	Pass
6	Height difference	EN 16511	ISO 24337:2006	havg≤ 0.10 mm hmax ≤ 0.15 mm	havg = 0.04 mm hmax = 0.05 mm	Pass
7	Abrasion/Wear Resistance	EN 16511	EN 15468	0.5mm wear layer≥4000 cycles;	0.5mm wear layer≥4000 cycles;	0.5mm wear layer, Class 32, General commercial
8	Scratch	-	ISO 1518-1	>2500g	3000g	Pass
9	Peel resistance	-	EN ISO 24345		Length direction: 110N/50mm Width direction: 115N/50mm	Pass
10	Micro-scratch resistance	EN 16511	EN 16094:2012, Procedure A	≥MSR-A2	MSR-A2	Pass
11	Residual indentation	EN 16511	EN 433/ISO 24343-1	≤0.15mm	0.03	Class 34, Very Heavy commercial
12	Impact resistance	EN 16511	EN 13329	≥1800mm	>1800mm	Class 34, Very Heavy commercial
13	Slip resistance	EN 14041	EN 13893	DryCOF ≥0.3	0.37	Class DS
		-	D 51130	≥R9	R10	Anti-slip resistance R10
14	Color fastness to light	EN 13329	ISO 105-B02:1994, Method 3a	≥Grade 6	>Grade 6	Pass
15	Resistance to staining	EN 16511	EN 438-2	Group 1 and 2: Grade 5, Group3: Grade 4	Group 1 and 2: Grade 5, Group3: Grade 4	Class 34, Very Heavy commercial
		-	EN ISO 26987	Index 0	Index 0, not affected	
16	Dimensional stability & curling	EN 16511	ISO 23999	≤ 0.25%	Length direction: 0.06% Width direction: -0.05% Curling: 0.04mm	Class 34, Very Heavy commercial
17	Water resistance/Swelling in water	EN 16511	ISO 24336	≤12%	0.20%	Class 34, Very Heavy commercial
18	Locking strength	EN 16511	ISO 24334	Long side≥2.0KN/m Short side≥3.5KN/m	Long side: 4.3KN/m Short side: 4.7KN/m	Class 34, Very Heavy commercial
19	Thermal conductivity	EN 14041	EN 12667	-	0.123 W/(m.k)	Suitable for underfloor heating system
20	Thermal resistance			-	0.030 m2·K/W	Suitable for underfloor heating system
21	Reaction to fire	EN 14041	EN 13051-1	-	Class Bfl -S1	Class Bfl -S1
22	Formaldehyde emission	EN 14041	EN 717-1	Release ≤0.124 mg/m3	0.005mg/m3	E05
23	VOC	Decret No2011-321	ISO 16000	TVOC<1000μg/m3	Non Detected	A+
		Floorscore	Californian 01350	Within CREL/TAC	Non Detected	Floorscore certified
24	Lead	CPSIA	CPSC-CH-E-1002-08	≤ 90ppm	Non Detected	Meet children toy reguation
25	PCP	EN 14041	EN 12673	<1ppm	Non Detected	Pass
26	Phthalate content		EN 14372	-	Non Detected	Pass
27	Substances of Very High Concern (SVHC)	EU REACH regulation No. 1907/2006	Spectrometry and chromatography	≤ 0.1% (w/w)	Non Detected	REACH compliant
28	The body Voltage	-	EN 1815: 2016 Method A	<2 KV	0.4 KV	Pass
29	Castor Chair	EN 16511	EN 425	>25000 circles	>25000 cirlces	Class 34, Very Heavy commercial
30	Weighted improvement of impact sound insulation	ISO 717-2:2013	ISO 10140-3-2010+A1-2015	-	ΔLw= 22 dB	-
31	Weighted normalized impact sound pressure level	ISO 717-2:2013	ISO 10140-3-2010+A1-2015	-	Ln,w= 51 dB	-
32	Impact Insulation Class	-	ASTM E492-09	-	IIC 56	-
33	Sound Transmission Class	-	ASTM E90	-	STC 53	-