Test report overview

01 / EN 14904 / Sports surface performance

Report	Test category	Testing laboratory	Test item	Test standard / method	Scope / requirement	Test result
1	EN 14904 testing		Vertical deformation	EN 14809-2005	≤ 5.0 mm	0.3
			Friction	EN 13036-4:2011	80 to 110	86
			Abrasion resistance	EN ISO 5470-1-1999	≤ 1,000 mg/1,000 cycles	120
			Indentation resistance	EN 1516-1999	≤ 0.5 mm	0.27
			Impact resistance	EN 1517-1999		No perceptible damage
			Resistance to a rolling load	EN 1569-1999		No perceptible damage
			Pentachlorophenol	EN 14041:2004 / EN 12673:1998	5.0 mg/kg	Not detected
			Formaldehyde	EN 717-1:2004	0.08	Not detected

Test report overview

02 / Physical properties

Report	Test category	Testing laboratory	Test item	Test standard / method	Scope / requirement	Test result
2	Physical properties	National Sporting Goods Quality Supervision and Testing Center	Appearance	Enterprise standard	Uniform colour; no obvious colour variation, cracks, delamination or other defects	Pass
			Ball rebound	Enterprise standard	≥ 90	95
			Hardness (Shore A)	Enterprise standard	55 to 90	68
			Resilience	Enterprise standard	≥ 5	12
			Tensile strength	Enterprise standard	≥ 1.0	3.2
			Elongation at break	Enterprise standard	≥ 120	293
			Flame retardancy	Enterprise standard	Class I	Class I
			Coefficient of friction	Enterprise standard	0.40 to 0.60	0.56

Test report overview

03 / Restricted substances & phthalates / Part 1

Report	Test category	Testing laboratory	Test item	Test standard / method	Scope / requirement	Test result
3	Restricted substances	National Building Materials Testing Center	Monomer content	GB 18586-2001	≤ 5 mg/kg	Not detected (< 0.5 mg/kg)
			Soluble heavy metals: lead (Pb)	GB 18586-2001	≤ 20 mg/m²	Not detected (< 0.1 mg/m²)
			Soluble heavy metals: cadmium (Cd)	GB 18586-2001	≤ 20 mg/m²	Not detected (< 0.1 mg/m²)
4	Volatile matter		Volatile matter	GB 18586-2001	≤ 75 g/m²	24; pass
5	Phthalate testing	EQO Testing and Certification Co., Ltd.	Phthalates	EN 14372-2004	Dibutyl phthalate (DBP)	0.005; not detected
			Phthalates	EN 14372-2004	Benzyl butyl phthalate (BBP)	0.005; not detected
			Phthalates	EN 14372-2004	Di-n-octyl phthalate (DNOP)	0.005; not detected
			Phthalates	EN 14372-2004	Diisononyl phthalate (DINP)	0.01; not detected
			Phthalates	EN 14372-2004	Diisodecyl phthalate (DIDP)	0.01; not detected

Test report overview

04 / Phthalates / Part 2

Report	Test category	Testing laboratory	Test item	Test standard / method	Scope / requirement	Test result
5	Phthalate testing	EQO Testing and Certification Co., Ltd.	Phthalates	EN 14372-2004	Diethyl phthalate (DEP)	0.05; not detected
			Phthalates	EN 14372-2004	Dimethyl phthalate (DMP)	0.005; not detected
			Phthalates	EN 14372-2004	Diisobutyl phthalate (DIBP)	0.005; not detected
			Phthalates	EN 14372-2004	Dibenzyl phthalate (DBzP)	0.005; not detected
			Phthalates	EN 14372-2004	Diisooctyl phthalate (DIOP)	0.005; not detected
			Phthalates	EN 14372-2004	Di-n-pentyl phthalate (DnPP)	0.005; not detected
			Phthalates	EN 14372-2004	Dicyclohexyl phthalate (DCHP)	0.005; not detected
			Phthalates	EN 14372-2004	Bis(2-propylheptyl) phthalate (DPHP)	0.005; not detected
			Phthalates	EN 14372-2004	Dinonyl phthalate (DNP)	0.005; not detected
			Phthalates	EN 14372-2004	Dipropyl phthalate (DPRP)	0.005; not detected

Test report overview

05 / Fire performance & residual indentation

Report	Test category	Testing laboratory	Test item	Test standard / method	Scope / requirement	Test result
6	Reaction to fire	National Building Materials Testing Center	Reaction to fire	GB/T 8624-2012		B1 (B-s1,t0)
			Critical radiant flux	GB/T 11785-2005	≥ 8.0 kW/m²	8.8
			Flame tip height within 20 s (Fs)	GB/T 8626-2007	≤ 150 mm (within 20 s)	Fs < 150 mm within 20 s
			Smoke production (s1)	GB/T 11785-2005	≤ 750	177
			Smoke toxicity	GB/T 20285-2006	Class ZA1	Class ZA1 achieved
7	Residual indentation (CN/EN)	SGS	Residual indentation	EN 1516:1999	After 24 h recovery: ≤ 0.5 mm	Pass; after 5 min: 0.98 mm after 24 h: 0.12 mm