

**TECHNICAL FILE TWINSON**

application: O-Terrace+  
P9520

date: 27/11/2024  
version: v8



			prEN 15534-1	based on	specific property	unit	value						
MATERIAL CHARACTERISTICS	physical properties	density	§ 6.1	ISO 1183-1/A		kg/dm <sup>3</sup>	1.44 ± 0.05						
	mechanical properties	flexural properties	§ 7.3.1	ISO 178	flexural modulus	MPa	6300 ± 10%						
					bending strength	MPa	> 55						
	durability	swelling and water absorption (28 days)	§ 8.3.1	EN 317	mass increase	%	< 8						
		resistance to termites	§ 8.4.2	EN 117		class	1						
		resistance against basidiomycetes	§ 8.4.3.2	ENV 12038		class	1						
	thermal properties	linear thermal expansion (-20 °C ... +60°C)	§ 9.1	ISO 11359-2	length direction	10 <sup>-6</sup> K <sup>-1</sup>	20 - 25						
resistance against soil inhabiting soft rotting micro-fungi								§ 8.4.3.3	CEN/TS 15083-2		class	1	
burning behaviour	oxygen index	§ 10.1	ISO 4589-2		%	> 20							
PRODUCT RELATED CHARACTERISTICS	physical properties	slip resistance	§ 6.4	DIN 51097	bare foot ramp test	class	C						
			---	EN 13893	Floor slider 2000	---	> 0.4						
			---	CEN/TS 15676	pendulum	USRV	> 36						
			---	DIN 51130	rubber sole ramp test	class	R13						
	mechanical properties	flexural properties (Lv=60 cm)	§ 7.3.2	EN 310	flexural modulus	MPa	6000 ± 10%						
					bending strength	MPa	> 40						
	durability	creep behaviour (Lv=60 cm/85kg/50°C/ 7 days)	§ 7.4.2.1	EN 310	additional bending	mm	< 10						
								natural weathering (1 year Bandol)		bending strength retention	%	< 20	
								cyclic conditions (Lv=60 cm)	§ 8.3.2	EN 321	bending strength retention	%	< 20
	thermal properties	boiling test	§ 8.3.3	ISO 1087-1	mass increase	%	< 8						
								heat reversion	§ 9.2	EN 479		%	< 0.2
								heat build-up	§ 9.3	ASTM D4803		°C	< 45
	burning behaviour	single flame source	§ 10.2.1	ISO 11925-2	classification EN 13501-1	class	Efl						
radiant heat source		§ 10.2.3	ISO 9239-1	classification EN 13501-1	class	---							

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