

Material properties Trespa Athlon

Properties	Value	Unit	Standard
Physical properties			
Specific gravity	≥ 1.350	kg/m ³	ISO 1183
Water absorption	≤ 1,0	% weight	EN 438
Dimensional stability	≤ 2,5	mm/m	EN 438
Weight	Thickness 6 mm	8,5	kg/m ²
	Thickness 13 mm	18,5	kg/m ²
	Thickness 16 mm	22,5	kg/m ²
	Thickness 20 mm	28,0	kg/m ²
Panel tolerance			
Length & Width	-0,0/+5	mm	
Thickness	± 0,4 for 6	mm	
	± 0,5 for 8,10	mm	
	± 0,6 for 13	mm	
	± 0,7 for 16	mm	
	± 0,8 for 20,25	mm	
Optical properties			
Changes when subjected to dry heat (maximum temperature of 180°C)			EN 438
gloss	5 (= no changes)		
colour	5 (= no changes)		
cracking	5 (= no changes)		
Mechanical properties			
Modulus of elasticity	≥ 9.000	N/mm ²	ISO 178
Tensile strength	≥ 70	N/mm ²	ISO 527-2
Flexural strength	≥ 100	N/mm ²	ISO 178
Resistance to impact by large diameter balls	≤ 6	mm	EN 438
Scratch resistance	≥ 3	Rating	EN 438
Wear resistance			
Initial point	≥ 150	Revolutions	EN 438
Wear value	≥ 350		
Chemical properties			
See datasheet chemical properties			
Fire behaviour			
Great Britain	Type FR: class 0		BS 476 Part 6
Fire classification	Type FR: class 1		BS 476 Part 7
	Type Standard: class 2		BS 476 Part 7
Germany	Typ FR: Klasse B1		DIN 4102-1
Baustoffklasse	Typ Standard: Klasse B2		DIN 4102-1
France 6-8-10-13-16-20 mm	Type FR: Classement M1		NF P 92-501
6-8-10-13-16-20 mm	Type Standard: Classement M2		NF P 92-501
Belgium	Type FR: Klasse A1		NBN S21-203
Europe	Type FR: Euroclass B-s2,d0		EN 13501-1
	Type Standard: Euroclass D-s2,d0		EN 13501-1