

Material Properties Trespa Athlon

Properties	Value	Unit	Standard
Physical properties			
Specific gravity	± 87.5	lb./ft ³	ASTM-D 792-91
Weight	Thickness 1/4"	8.5	kg/m ²
	Thickness 1/2"	18.5	kg/m ²
	Thickness 5/8"	22.5	kg/m ²
	Thickness 3/4"	28.0	kg/m ²
	Thickness 1"	35.0	kg/m ²
Panel tolerance			
Length & Width	- 0.0/+5	mm	
Thickness	± 0.5 for 6,8,10	mm	
	± 0.6 for 13,16	mm	
	± 0.7 for 20	mm	
	± 0.8 for 25	mm	
Optical properties			
Changes when subjected to dry heat (maximum temperature of 356°F)			EN 438
gloss	5 (= no changes)		
color	5 (= no changes)		
cracking	5 (= no changes)		
Mechanical properties			
Modulus of elasticity	□ 1.3 x 10 ⁶	psi	ISO 178
Tensile strength	□ 8,700	psi	ISO 527-3
Flexural strength	□ 13,000	psi	ISO 178
Surface impact resistance			
All plain colors	4	Index number	EN 438
Scratch resistance			
Plain colors, light	4	Index number	EN 438
Plain colors, dark	3	Index number	EN 438
Wear resistance			
All plain colors	3	Index number	EN 438
Fantasy decors	2	Index number	EN 438
Water absorption	□ 1.0	% weight	EN 438
Dimensional stability	< 0.03 (-4 - +176°F, RH < 85%)	in/ft	---
Thermal properties			
Application temperature			
- constant	-40 to 266	°F	
Chemical properties			
See datasheet chemical properties			
Fire behavior			
	UL Classified		ASTM E-84
Grade	Panel Thickness	Flamespread	Smoke development
FR	1/4" to 1"	10	45-75
Standard	1/4" to 3/8"	50	300
	1/2"	30	85
	5/8" to 1"	25	70