

MATERIAL PROPERTIES TRESPA VIRTUON

Properties	Value	Unit	US Value*	Unit	Standard
Physical properties					
Dimensional Stability	≤ 2.5	mm/m	≤ 0.3	in/ft	EN 438
Density	≥ 1,350	kg/m ³	≥ 84.27	lbs/ft ³	ISO 1183
Weight					
Thickness 6 mm (1/4 in)	± 8.5	kg/m ²	± 1.7	lbs/ft ²	
Thickness 8 mm (5/16 in)	± 11	kg/m ²	± 2.25	lbs/ft ²	
Thickness 10 mm (3/8 in)	± 14.0	kg/m ²	± 2.87	lbs/ft ²	
Thickness 13 mm (1/2 in)	± 18.5	kg/m ²	± 3.8	lbs/ft ²	
Panel Tolerance					
Length & Width	- 0.0 / +5	mm	- 0.0/+0.2	in	EN 438
Thickness	± 0.4 for 6	mm	± 0.016 for 1/4	in	EN 438
	± 0.5 for 8 and 10	mm	± 0.020 for 5/16 and 3/8	in	
	± 0.6 for 13	mm	± 0.024 for 1/2	in	
Optical properties					
Resistance to dry heat at 180°C (365°F)	≥ 4	Rating			EN 438
Resistance to wet heat at 100°C (212°F)	≥ 4	Rating			EN 12721
Resistance to crazing	≥ 4	Rating			EN 438
Resistance to color change (UV-A)	≥ 6	Wool scale			ASTM G53-91 (315 - 400nm)
Mechanical properties					
Modulus of elasticity	≥ 9,000	N/mm ²	≥ 1,300,000	psi	ISO 178
Tensile strength	≥ 70	N/mm ²	≥ 10,100	psi	ISO 527-2
Flexural strength	≥ 100	N/mm ²	≥ 14,500	psi	ISO 178
Resistance to impact by large diameter ball					
Drop height	1800	mm	71	in	
Diameter of indentation	≤ 10	mm	≤ 0.4	in	
Resistance to scratching	≥ 3	Rating			EN 438
Chemical properties					
Resistance to staining	5	Rating			EN 438
Cleaning properties					
Removing graffiti, scale and common dirt	good				Trespa internal test
Cleaning properties determined by cleaning with commercially available cleaning agents according to manufacturer's instructions					
Antibacterial properties					
Determination of antibacterial activity					
Escherichia coli	≥ 99.99	% reduction			JIS Z 2801:2000
Staph Aureus	≥ 99.99	% reduction			JIS Z 2801:2000
Hygienic properties					
Surface disinfection					IKI (certificate of hygiene available)
Contact with food					ISEGA (certificate of conformity available)

Region	Quality	Test Standard	Test Result	Standard
Fire behavior	Type FR	UL723/ASTM E84	< 25 (Flamespread)	Classification **
North America				Class A according to principal US building codes

Region	Available	Standard
Certificates		
North America	GREENGUARD Indoor Air Quality Certified® GREENGUARD Children & Schools SM	FC2Lp94711-1 FC2Lp94711-1

Disclaimer: * Note that due to conversion from metric values, the US values provided are approximate.

** Laboratory test results are not intended to represent hazards which may be present under actual fire conditions.

All data is related to the products mentioned in the standard Trespa Virtuon delivery program.

For more information, please contact your local Trespa office.