

MATERIAL PROPERTIES TRESPA TOPLAB^{PLUS}

For all Uni-colours mentioned in the standard Trespa TopLab^{PLUS} delivery program.
For other colours data available on request.

Properties	Value	Unit	USA Value	Unit	Standard
Physical properties					
Density	≥ 1350	kg/m ³	≥ 84.24	lbs/ft ³	ISO 1183
Weight					
Thickness 13 mm (1/2 in)	± 18,5	kg/m ²	± 3.8	lbs/ft ²	
Thickness 16 mm (5/8 in)	± 22,5	kg/m ²	± 4.6	lbs/ft ²	
Thickness 20 mm (3/4 in)	± 28,0	kg/m ²	± 5.7	lbs/ft ²	
Thickness 25 mm (1 in)	± 35,0	kg/m ²	± 7.2	lbs/ft ²	
Panel Tolerance					
Length & Width	- 0,0/+5	mm	- 0.0/+0.2	in	EN 438
Thickness	± 0,6 for 13	mm	± 0.024 for 1/2	in	EN 438
	± 0,7 for 16	mm	± 0.028 for 5/8	in	
	± 0,8 for 20 and 25	mm	± 0.031 for 3/4 -1	in	
Optical properties					
Resistance to dry heat at 180°C	≥ 4	Rating			EN 438
Resistance to wet heat at 100°C	≥ 4	Rating			EN 12721
Resistance to crazing	≥ 4	Rating			EN 438
Resistance to colour change (UV-A)	≥ 6	Wool scale			ASTM G53-91 (315 - 400nm)
Mechanical properties					
Modulus of elasticity	≥ 9000	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	≥ 4	Rating			EN 438
Wear resistance for standard quality					
Initial point	≥ 150	Revolutions			EN 438
Wear value	≥ 350	Revolutions			

Region	Quality	Fire classification	Standard
Behavior in case of fire			
European Union	Type Standard	Euroclass D-s2d0	EN 438-7

Please note: Due to the CE-marking HPL panels have to be tested in accordance with EN 13501-1. National authorities decide on (the moment of) introduction of this standard in its building codes.