

Technical Datasheet



Material Properties Trespa TopLab ^{PLUS}

Properties	Value	Unit	Standard
Physical Properties			
Specific gravity	87.5(± 1400)	lb/ft ³ (Kg/m ³)	ASTM-D 792-91
Weight Thickness ^{1/2"} (13 mm)	3.8 (18.5)	lb/ft ² (Kg/m ²)	
Thickness ^{5/8"} (16 mm)	4.6 (22.5)	lb/ft ² (Kg/m ²)	
Thickness ^{3/4"} (20 mm)	5.7 (28.0)	lb/ft ² (Kg/m ²)	
Thickness ^{1"} (25 mm)	7.2 (35.0)	lb/ft ² (Kg/m ²)	
Panel tolerance			
Length	0.0/+0.2" (-0.0/+5)	(mm)	
Width	0.0/+0.2" (-0.0/+5)	(mm)	
Thickness	± 0.024" for 1/2", 5/8" (± 0.6 for 13, 16)	(mm)	
	± 0.028" for 3/4" (± 0.7 for 20)	(mm)	
	± 0.032" for 1" (± 0.8 for 25)	(mm)	
Optical properties			
Change when subjected to dry heat (maximum temperature of 355° F)			EN 438-2(8)
gloss	no changes		
color	no changes		
cracking	no changes		
Mechanical properties			
Modulus of elasticity	≥ 1.200.000 (≥ 8.000)	psi (N/mm ²)	DIN 53457
Tensile strength	≥ 13.000 (≥ 90)	psi (N/mm ²)	DIN 53455
Flexural strength	≥ 14.500 (≥ 100)	psi (N/mm ²)	DIN 53452
Impact resistance	indexnr. 4 [≥ 11] (≥ 50)	lbf (N)	EN 438-2:11
Scratch resistance *	indexnr. 4 [≥ 1] (≥ 5)	lbf (N)	EN 438-2:14
Wear resistance *	indexnr. 3 [≥ 600 rev.] (≥ 600)	(revolutions)	EN 438-2:6
Thermal properties			
Application temperature			
Constant	- 40 / + 285 (- 40 / + 140)	°F (°C)	
Peak, max. 20 min.	+ 355 (+ 180)	°F (°C)	

* depending on color and print