TRESPA® TOPLAB® PLUS ALIGN

MATERIAL PROPERTY DATASHEET

Decorative high-pressure compact laminates according to EN 438-4:2016 of thickness of 16 mm (\pm 5/8 in) and 20 mm (\pm 3/4 in) for interior scientific surface solutions. Sheets consisting of layers of wood-based fibres impregnated with lignin-based thermosetting resin and surface layer(s) on one or both sides, having decorative colours or designs. A transparent topcoat is added to the surface layer(s) and cured by Trespa's unique in-house technology Electron Beam Curing (EBC). These components are bonded together with simultaneous application of heat and high specific pressure to obtain a homogeneous closed material with increased density and integral decorative surface.

				RESULTAB
PROPERTIES	TEST METHOD	PROPERTY OR ATTRIBUTE	UNIT	STANDARD: EN 438-4
				COLOUR/DECOR: ALLB
SURFACE QUALITY				
		Spots, dirt, similar surface defects	mm ² /m ²	≤ 1
	EN 438-2 : 4		in²/ft²	≤ 0.0001
		Fibres, hairs & scratches	mm/m²	≤ 10
			in/ft²	≤ 0.036
DIMENSIONAL TOLERANCES			· ·	
	EN 438-2 : 5	Thickness	mm	16.0 = t: +/- 0.70
				20.0 = t: +/- 0.80
			in	0.6299 = t: +/- 0.0275
				0.7874 = t: +/- 0.0315
			mm/m	≤ 2
	EN 438-2 : 9	Flatness	in/ft	≤ 0.024
	EN 438-2 : 6 EN 438-2 : 7 Trespa Standard	Length & width Straightness of edges Squareness	mm	+ 5 / - 0
			in	+ 0.1968 / - 0
			mm/m	+ 0.1908 / ° 0 ≤ 1
			in/ft	≤ 0.012
			In/π	
				2550 x 1860 : difference between diagonals (x·y)) ≤ 4
			mm	3050×1530 : difference between diagonals (xy) ≤ 4
			in	3650 x 1860 : difference between diagonals (xy) ≤ 5
				100.39 x 73.23 : difference between diagonals (xy) ≤ 0.1575
				120.08 x 60.24 : difference between diagonals (xy) ≤ 0.1575
				143.70 x 73.23 : difference between diagonals (xy) ≤ 0.1969
PHYSICAL PROPERTIES	I		I	
esistance to surface wear	EN 438-2 : 10	Wear resistance - Revolutions (min)	Initial point	≥ 150
Resistance to impact by large diameter ball	EN 438-2 : 21	Indentation diameter - 6 ≤ t mm with drop height 1.8 m	mm	≤ 10
Resistance to scratching	EN 438-2 : 25	Force	Rating (min)	≥ 4
esistance to dry heat (160° C / 320° F)	EN 438-2 : 16	Appearance	Rating (min)	≥ 4
esistance to wet heat (100° C / 212° F)	EN 438-2 : 18	Appearance	Rating (min)	≥ 4
Resistance to immersion in boiling water	EN 438-2 : 12	Mass increase (% max)	t ≥ 6 mm	≤ 2
		Thickness increase (% max)	t ≥ 6 mm	≤ 2
		Appearance	Rating (min)	≥ 4
Dimensional stability at elevated temperature	EN 438-2 : 17	Cumulative dimensional change	Longitudinal %	≤ 0.25
			Transversal %	≤ 0.25
ight fastness (xenon arc)	EN 438-2 : 27	Contrast	Grey scale ISO 105 A02	4-5
Pesistance to water vapour	EN 438-2 : 14	Appearance	Rating (min)	≥ 4
desistance to crazing	EN 438-2 : 24	Appearance	Rating (min)	≥ 4
Modulus of elasticity	EN ISO 178	Stress	MPa	≥ 9000
lexural strength	EN ISO 178	Stress	MPa	≥ 100
Tensile strength	EN ISO 527-2	Stress	MPa	≥ 70
Density	EN ISO 1183	Density	g/cm³	≥ 1.35
OTHER PROPERTIES				
Release of formaldehyde	EN 717-2	Classification	Class	E1
Chemical resistance	SEFA3-2010	Classification	Rating	Pass

 $^{\rm A}$ Due to conversion from metric values, the US values provided are approximate.



^B All data are related to the products mentioned in the Trespa* Toplab**PLUS ALIGN standard delivery programme.