

MATERIAL PROPERTY DATASHEET

Decorative high-pressure compact laminates according to EN 438-6:2016 with thickness of 8 mm for outdoor applications. Sheets consisting of layers of natural fibres (paper and/or wood) impregnated with thermosetting resins and surface layer on one side, having decorative colours. A transparent topcoat is added to the surface layer and cured by Trespa's unique in-house technology Electron Beam Curing (EBC), to enhance weather and light protecting properties. 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.

PROPERTIES	TEST METHOD	PROPERTY OR ATTRIBUTE	UNIT	RESULT	
				GRADE: EDF	
				STANDARD: EN 438-6	
				COLOUR/DECOR ^A	
SURFACE QUALITY					
	EN 438-2 : 4	Spots, dirt, similar surface defects	mm ² /m ²		≤ 2
		Fibres, hairs & scratches	mm/m ²		≤ 20
DIMENSIONAL TOLERANCES					
	EN 438-2 : 5	Thickness	mm		+/- 0.50
	EN 438-2 : 9	Flatness	mm/m		≤ 2
	EN 438-2 : 6	Length & width	mm		+ 5 / - 0
	EN 438-2 : 7	Straightness of edges	mm/m		≤ 1
PHYSICAL PROPERTIES					
Resistance to impact by large diameter ball	EN 438-2 : 21	Indentation diameter - $\delta \leq 1$ mm with drop height 1.8 m	mm		≤ 10
Dimensional stability at elevated temperature	EN 438-2 : 17	Cumulative dimensional change	Longitudinal %		≤ 0.25
			Transversal %		≤ 0.25
Resistance to wet conditions	EN 438-2 : 15	Mass increase	%		≤ 3
		Appearance	Rating		≥ 4
Modulus of elasticity	EN ISO 178	Stress	MPa		≥ 9000
Flexural strength	EN ISO 178	Stress	MPa		≥ 120
Tensile strength	EN ISO 527-2	Stress	MPa		≥ 70
Density	EN ISO 1183	Density	g/cm ³		≥ 1.35
Resistance to fixings	ISO 13894-1	Pull out strength	N		≥ 3000
WEATHER RESISTANCE PROPERTIES					
Resistance to climatic shock	EN 438-2 : 19	Flexural strength index (Ds)	Index		≥ 0.80
		Flexural modulus index (Dm)	Index		≥ 0.80
		Appearance	Rating		≥ 4
Resistance to artificial weathering (incl. light fastness) West European cycle	EN 438-2 : 29	Contrast	Grey scale ISO 105 A02		4-5
		Appearance	Rating		≥ 4
Resistance to artificial weathering (incl. light fastness) Florida cycle 3000hrs	Trespa Standard	Contrast	Grey scale ISO 105 A02		4-5
		Appearance	Rating		≥ 4
Resistance to SO ₂	DIN 50018	Contrast	Grey scale ISO 105 A02		4-5
		Appearance	Rating		≥ 4
FIRE PERFORMANCE					
Reaction to Fire	EN 438-7	Classification	Euroclass		B-s2, d0
Surface Burning Characteristics	ASTM E84	Classification	Class		A

A All data are related to the products mentioned in the Pura[®] NFC standard delivery programme.