

Panelex

Technical Bulletin



PANELEX LAMINATE FOR FACADES				
Test	Testing Standard	Field	Unit	Specifications of exterior compact laminate
Density	ISO 1183	Mass	g/cm ³	≥ 1.35
Length & width	EN 438 2-6	Plate	mm	+ 1 / -0
Straightness of sides	EN 438 2-7	Plate	mm/m	≤ 1.0
Squared	EN 438 2-8	Plate	mm/m	≤ 1.0
Thickness	EN 438 4-5	5.0 ≤ e < 8.0	mm	tol +- 0.4
		8.0 ≤ e < 12.0		tol +- 0.5
		12.0 ≤ e < 16.0		tol +- 0.6
Planimetry	EN 438 2-9	6 ≤ e < 8.0	mm/m	≤ 5.0
		8 ≤ e -		≤ 3.0
Dimensional Stability Elevated Temperature	EN 438 2-17	Longitudinal	% max	≤ 0.25
		Transversal	% max	≤ 0.25
Impact Resistance (large diameter ball)	EN 438 2-21	Ball drop E = 6 mm	mm Height	≥ 1400
		Ball drop e > 6 mm	mm Height	≥ 1800
		Punching diameter	mm	≤ 10
Humidity Resistance	EN 438 2-15	Mass increase	%	≤ 3
		Aspect	Slope	≥ 4
Fixing Resistance	ISO 13894-1	Thickness 6 mm	N	≥ 2000
		Thickness 8 mm	N	≥ 3000
		Thickness 10 mm	N	≥ 4000
Climate Change Resistance	EN 438 2-19	Aspect	Slope	≥ 4
		R. Flection Index	Ds	≥ 0.95
		Module Flection Index	Dm	≥ 0.95
Thermal Dilatation Coefficient	ISO 10545-8	Longitudinal	°C -1	1.6 x 10 ⁻⁵
		Transversal	°C -1	3.4 x 10 ⁻⁵
Ultraviolet Light Resistance	EN 438 2-28	Contrast	Grey scale	4-5 (3000 h. exposure)
		Aspect	Slope	≥ 4 (3000 h. exposure)
Artificial aging Resistance (including solidity in light)	EN 438 2-29	Contrast	Grey scale	4-5 (After radiant exposure of 325 MJ/m ²)
		Aspect	Slope	≥ 4 (After radiant exposure of 325 MJ/m ²)
Fire Resistance 1	ASTM E 84	Classification	Class	A
	EN 13501-1			B-s2, d0
Ice-type emissions	UL 2818-2013	Formaldehyde	ppb	<50
	EN 438-7; 2015			E1
Thermal Conductivity	EN 12524		W/m.k	0.3

¹ Applies for thicknesses of 6 mm and greater