

PRODUCT TECHNICAL SHEET



STYLAM COMPACT LAMINATES - Exterior EGS/EGF & EDS/EDF

(Produced with PU+Acrylic Hot Coat technology)

Compact Laminate panels of thickness more than or equal to 2 mm as per EN 438-6 : 2016 for External applications, in the EGS & EDS types or in the Flame Retardant as EGF & EDF types.

SL. NO.	PROPERTIES	TEST METHOD	ATTRIBUTES OF PERFORMANCE	UNIT OF MEASUREMENT	RESULTS (AS PER EN 438-6)
			EN-438 Laminate Classification		EDS/EDF/EGS/EGF
1	SURFACE QUALITY				
1.1	Surface quality	EN 438-2.4	Spots, dirt and similar surface defects	mm ² /m ²	≤ 2
			Fibres, hairs and scratches	mm/m ²	≤ 20
2	DIMENSIONAL PROPERTIES				
2.1	Thickness	EN 438-2.5	Thickness tolerance	mm	2 ≤ T < 3 : ± 0.2
				mm	3 ≤ T < 5 : ± 0.3
				mm	5 ≤ T < 8 : ± 0.4
				mm	8 ≤ T < 12 : ± 0.5
				mm	12 ≤ T < 16 : ± 0.6
				mm	16 ≤ T < 20 : ± 0.7
				mm	20 ≤ T < 25 : ± 0.8
				mm	25 ≤ T : ± 1.3
2.2	Size	EN 438-2.6	Length and width	mm	+ 10 / - 0
2.3	Straightness of edges	EN 438-2.7	Straightness of edges	mm/m	≤ 1.5
2.4	Squareness	EN 438-2.8	Squareness	mm/m	≤ 1.5
2.5	Flatness	EN 438-2.9	Flatness (measured on full-size sheet)	mm/m	2 ≤ T < 6 : 8
				mm/m	6 ≤ T < 10 : 5
				mm/m	10 ≤ T : 3
3	PHYSICAL PROPERTIES				
3.1	Flexural modulus	EN ISO 178	Stress	Mpa	≥ 9000
3.2	Flexural strength	EN ISO 178	Stress	Mpa	≥ 80
3.3	Density	EN ISO 1183	Density	gm/cm ³	≥ 1.35
3.4	Resistance to impact with large diameter ball	EN 438-2.21	Indent. dia. 10mm 2 ≤ T < 6 mm - Drop Height	mm	≥ 1400
			Indent. dia. 10mm T ≥ 6mm - Drop Height	mm	≥ 1800
3.5	Resistance to wet conditions	EN 438-2.15	Mass increase - 2 ≤ T < 5 mm	%	EGS/EDS- ≤ 7, EGF/EDF- ≤ 10
			Mass increase - T ≥ 5 mm	%	EGS/EDS- ≤ 5, EGF/EDF- ≤ 8
			Appearance	Rating	≥ 4
3.6	Dimensional stability at elevated temperatures	EN 438-2.17	Cumulative dimensional change - 2 ≤ T < 5mm	L %	≤ 0.40
				T %	≤ 0.80
			Cumulative dimensional change - T ≥ 5mm	L %	≤ 0.30
				T %	≤ 0.60
4	WEATHER RESISTANCE REQUIREMENTS				
4.1	Resistance to climatic shock	EN 438-2.19	Thermal Shock Resistance - Appearance	Rating	≥ 4
4.2	Resistance to artificial weathering	EN 438-2.29	Contrast	Grey scale rating	≥ 3
			Appearance	Rating	≥ 4
5	FIRE PERFORMANCES		Test as per EN 13823 (SBI test) and EN ISO 11925-2 (Small-burner test)		
5.1	Fire Reaction Classification, EGF-EDF	EN 13501	Classification - 3 ≤ T < 6 mm	Rating	B - s2, d0 ^a
			Classification - T ≥ 6 mm	Rating	B - s1, d0 ^a
5.2	Fire Reaction Classification, EGS-EDS	EN 13501	Classification - T ≥ 6 mm	Rating	D - s2, d0 ^a
			Classification - T ≥ 10 mm	Rating	B - s1, d0 ^a
6	OTHER PROPERTIES				
6.1	Release of Formaldehyde	EN 438-7.4.11.1	Classification	Rating	E1

- a Fire retardant ratings have been mentioned considering interior grade of retardant and non-fire retardant compact panels. Ratings for Exterior application panels will be same as that of Interior application panels for fire retardant property.

Issue date : 01/01/2025

Disclaimer :

This Product Technical Sheet gives technical information relevant to the performance of product as tested by STYLAM and External Certified testing agencies. STYLAM reserves the right to change product composition and characteristics at any time.