

PRODUCT TECHNICAL SHEET



COMPACT LAMINATES - Exterior EGS/EGF & EDS/EDF (Produced with PU+Acrylic Hot Coat technology)

Compact High Pressure Laminates (HPL) of thickness more than or equal to 2 mm as per EN 438-6 : 2016 for External applications, are available in the EGS & EDS or in the Flame Retardant EGF & EDF types on demand from 3 to 20 mm thickness.

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	2,0 ≤ T < 6,0 : 8
				mm/m	6,0 ≤ T < 10,0 : 5
				mm/m	10,0 ≤ 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	Rating	EGS/EDS- ≤ 7, EGF/EDF- ≤ 10
			Mass increase - T ≥ 5 mm	Rating	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
			Classification - T ≥ 6 mm	Rating	B - s1, d0
5.2	Fire Reaction Classification, EGS-EDS	EN 13501	Classification - 6 ≤ T < 10 mm	Rating	D - s1, d0
			Classification - T ≥ 10 mm	Rating	B - s1, d0
6	OTHER PROPERTIES				
6.1	Release of Formaldehyde	EN 438-7.4.11.1	Classification	Rating	E1

Issue date : 01/12/2019

Disclaimer :

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