

TECHNICAL DATA SHEET

PRODUCT TECHNICAL SHEET

CROWN DÉCOR COMPACT LAMINATES – EXTERIOR (EDF)

Compact High Pressure Laminates (HPL) of thickness more than or equal to 2.00mm as per EN 438-6:2005 for External applications.

SR. NO.	PROPERTIES	TEST METHOD	UNIT OF MEASUREMENT	ATTRIBUTES OF PERFORMANCE	RESULTS (AS PER EN 438-6)
				EN-438 LAMINATE CLASSIFICATION Type EDF	
1	SURFACE QUALITY				
1.1	Surface Quality	EN 438-2.4	mm ² /m ²	Spots, dirt and similar surface defects	≤ 2
			mm/m ²	Fibers, hairs, and scratches	≤ 20
2	DIMENSIONAL PROPERTIES				
2.1	Thickness	EN 438-2.5	mm	5.0 ≤ t < 8.0mm : ± 0.40 mm 8.0 ≤ t < 12.0mm : ± 0.50 mm	5.0 ≤ t < 8.0mm : ± 0.40 mm 8.0 ≤ t < 12.0mm : ± 0.50 mm
2.2	Size	EN 438-2.6	mm	Length and Width +10/-0	+ 05 / - 0
2.3	Straightness of edges	EN 438-2.7	mm/m	Straightness of edges ≤ 1.5	≤ 1
2.4	Squareness	EN 438-2.8	mm/m	Squareness ≤ 1.5	≤ 1
2.5	Flatness (measured on full size sheet)	EN 438-2.9	mm/m	For 2.0 ≤ t < 6.00mm : 8	5
			mm/m	For 6.0 ≤ t < 10.00mm : 5	3
			mm/m	10.0 ≤ t : 3	2
3	PHYSICAL PROPERTIES				
3.1	Flexural Modulus	EN-ISO-178	Mpa	Stress ≥ 9000	9395
3.2	Flexural Strength	EN-ISO-178	Mpa	Stress ≥ 80	143
3.3	Tensile Strength	EN-ISO-527-2	Mpa	Stress ≥ 60	77
3.4	Density	EN-ISO 1183-1	gm/ cm ³	Density 1.35-1.45	1.4
3.5	Resistance to impact by large diameter ball	EN-438- 2.21	min.	Indent dia. 10mm T≥ 6mm - 1800mm	2100 mm
3.6	Resistance to wet conditions	EN-438- 2.15	Max. %	Mass Increase - T ≥ 5 mm	1.74
3.7	Dimensional stability at elevated temperature	EN-438- 2.17	Longitudinal %	Cumulative dimensional change 2 ≤ T < 5 mm	-
			Transversal %		-
			Longitudinal %	Cumulative dimensional change T ≥ 5 mm	0.23
			Transversal %		0.34
4	WEATHER RESISTANCE REQUIREMENTS				
4.1	Resistance to climatic shock	EN-438- 2.19	Rating	Appearance	No change
4.2	Resistance to UV Light (3000 hrs)	EN-438- 2.28	Grey scale rating	Contrast	Degree 5, No visible change
			Rating	Appearance	Degree 5, No visible change
4.3	Resistance to artificial weather (3009 hrs – 650MJ/ m2	EN-438- 2.29	Grey scale rating	Contrast	Degree 5
			Rating	Appearance	No change in colour
5	FIRE PERFORMANCE				
5.1	Fire Reaction Classification - EDS	EN 13501-1:2019		Test as per EN 13823 and EN ISO 11925-2 (Small-burner test)	
			Rating	Classification - T ≥ 6 mm	D - s2, d0
	Fire Reaction Classification - EDF		Rating	Classification - 3 ≤ T < 6 mm	B - s2, d0
			Rating	Classification - 6 ≤ T < 13 mm	B - s1, d0

Remarks

@ Required Values Based on EN-438 - 6 ISSUE-02

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