

Global Eco Exterior

Compact High Pressure Laminates (HPL) of thickness more than or equal to 2 mm as per EN 438-6: 2005 for External applications, are available in the EGS & EDS or in the Flame Retardant EGF & EDF types on demand from 3 to 13 mm thickness.

SL. NO.	PROPERTIES	TEST METHOD	ATTRIBUTES OF PERFORMANCE	UNIT OF MEASUREMENT	RESULTS (AS PER EN 438-6)
EN-438 Laminate Classification					
1	SURFACE QUALITY				
1.1	Surface Quality	EN 438-2.4	Spots, dirt and similar surface defects Fibres, hairs and scratches	mm ² /m ² mm ² /m ²	≤ 2 ≤ 20
2	DIMENSIONAL PROPERTIES				
2.1	Thickness	EN 438-2.5	Thickness tolerance	mm	2 ≤ T < 3: ± 0,2 3 ≤ T < 5: ± 0,3 5 ≤ T < 8: ± 0,4 8 ≤ T < 12: ± 0,5 12 ≤ T < 16: ± 0,6 16 ≤ T < 20: ± 0,7 20 ≤ T < 25: ± 0,8 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 6,0 ≤ T < 10,0: 5 10,0 ≤ T: 3
3	PHYSICAL PROPERTIES				
3.1	Flexural Modulus	EN ISO 1 78	Stress	Mpa	≥ 9000
3.2	Flexural strength	EN ISO 1 78	Stress	Mpa	≥ 80
3.3	Tensile strength	EN ISO 527-2	Stress	Mpa	≥ 60
3.4	Density	EN ISO 1183	Density	gm/cm ³	≥ 1,35
3.5	Resistance to impact with large diameter ball	EN 438-2.21	Indent. dia. 10 mm 2 ≤ T ≤ 6 mm - Drop Height Indent. dia. 10 mm T ≥ 6 mm - Drop Height	min min	≥ 1400 ≥ 1800
3.6	Resistance to Wet Conditions	EN 438-2.15	Mass increase - 2 ≤ T < 5 mm Mass increase - T ≥ 5 mm Appearance	max. % max. % Rating	EGS/EDS - ≤ 7, EGF/EDF - ≤ 10 EGS/EDS - ≤ 5, EGF/EDF - ≤ 8 ≥ 4
3.7	Dimensional stability at elevated temperatures	EN 438-2.17	Cumulative dimensional change - 2 ≤ T < 5 mm Cumulative dimensional change - T ≥ 5 mm	Longitudinal % Transversal % Longitudinal % Transversal %	≤ 0,40 ≤ 0,80 ≤ 0,30 ≤ 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 Appearance	Grey scale rating Rating	≥ 3 ≥ 4
5	FIRE PERFORMANCES				
5.1	Fire Reaction Classification (on demand)	EN 135 01	Test as per EN 13823 (SBI test) and EN ISO 11925-2 (Small-burner test) Classification -3 ≤ T ≤ 6 mm Classification -6 ≤ T 13 mm	Classification Classification	B - s2, d0 B - s1, d0