

STYLAM COMPACT LAMINATES

Compact High Pressure Laminates (HPL) as per EN 438-4:2005, are available in the standard CGS and in the flame retardant CGF types on demand. When these laminates are self-supporting they are ready for installation.

SL. NO.	PROPERTIES	TEST METHOD	ATTRIBUTES OF PERFORMANCE	UNIT OF MEASUREMENT	RESULTS (AS PER EN 438-4)
			EN-438 Laminate Classification		CGS/CGF
1	SURFACE QUALITY				
1.1	Surface quality	EN 438-2.4	Spots, dirt and similar surface defects	mm ² /m ²	1
			Fibres, hairs and scratches	mm/m ²	10
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
2.2	Size	EN 438-2.6	Length and width	mm	25 T : ± 1,3
2.3	Straightness of edges	EN 438-2.7	Straightness of edges	mm/m	+ 10 / - 0
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 : 8,0
				mm/m	6,0 T < 1,0,0 : 5,0
				mm/m	10,0 T : 3,0
3	PHYSICAL PROPERTIES				
3.1	Resistance to surface wear	EN 438-2.10	Wear Resistance - Initial Point	Revolutions	Unicolours - 150 Printed Décor - 125
			Wear Resistance - Wear value	Revolutions	Unicolours - 350 Printed Décor - 250
3.2	Resistance to immersion in boiling water	EN 438-2.12	Mass increase - 2 T < 5 mm	%	CGS - 5 , CGF - 7
			Mass increase - T ≥ 5 mm	%	CGS - 2 , CGF - 3
			Thickness increase - 2 T < 5 mm	%	CGS - 6 , CGF - 9
			Thickness increase - T 5 mm	%	CGS - 2 , CGF - 6
			Appearance - Gloss Finish	Rating	3
3.3	Resistance to water vapour	EN 438-2.14	Appearance - Other Finishes	Rating	4
			Appearance - Gloss Finish	Rating	3
3.4	Resistance to dry heat (180°C)	EN 438-2.16	Appearance - Other Finishes	Rating	4
			Appearance - Gloss Finish	Rating	3
3.5	Dimensional stability at elevated temperatures	EN 438-2.17	Cumulative dimensional change - 2 T<5mm	Longitudinal %	0,40
				Transversal %	0,80
			Cumulative dimensional change - T 5 mm	Longitudinal %	0,30
				Transversal %	0,60
3.6	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 T6mm - Drop Height	mm	1800
3.7	Resistance to crazing	EN 438-2.24	Appearance	Rating	4
3.8	Resistance to scratching	EN 438-2.25	Appearance - Smooth Finishes	Rating	2
			Appearance - Textured Finishes	Rating	3
3.9	Resistance to staining	EN 438-2.26	Appearance - Group 1 & 2	Rating	5
			Appearance - Group 3	Rating	4
3.10	Light fastness (Xenon arc)	EN 438-2.27	Contrast	Grey scale rating	4 to 5
3.11	Resistance to cigarette burns	EN 438-2.30	Appearance	Rating	3
3.12	Flexural modulus	EN ISO 1 78	Stress	Mpa	9000
3.13	Flexural strength	EN ISO 1 78	Stress	Mpa	80
3.14	Tensile strength	EN ISO 527-2	Stress	Mpa	60
3.15	Density	EN ISO 1183	Density	gm/cm ³	1,35
4	FIRE PERFORMANCES				
4.1	Fire Reaction Classification, CGS	EN 135 01	Test as per EN 13823 (SBI test) and EN ISO 11925-2 (Small-burner test)		
			Classification - T 6 mm	Rating	D - s2, d0
			Classification - 3 T < 6 mm	Rating	B - s2, d0
4.2	Fire Reaction Classification, CGF		Classification - 6 T < 13 mm	Rating	B - s1, d0
5	OTHER PROPERTIES				
5.1	Release of Formaldehyde	EN 438-7.4.11.1	Classification	Rating	E1

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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.