

TECHNICAL DATA SHEET

PRODUCT TECHNICAL SHEET CROWN DÉCOR COMPACT LAMINATES

Compact High Pressure Laminates (HPL) as per EN 438-4:2016

R.NO.	PROPERTIES	TEST METHOD	UNIT OF MEASUREMENT	ATTRIBUTES OF PERFORMANCE	RESULTS (AS PER EN 438-4)
				EN-438 LAMINATE CLASSIFICATION Type CGS	
1	SURFACE QUALITY			<i></i>	
	o (51,420,2,4	mm²/m²	Spots, dirt and similar surface defects	≤1
1.1	Surface Quality	EN 438-2.4	mm/m²	Fibers, hairs, and scratches	≤ 10
2	DIMENSIONAL PROPERTIES /				
2.1	Thickness	EN 438-2.5	mm	2.0 ≤ t < 3.0mm : ± 0.20 mm 3.0 ≤ t < 5.0mm : ± 0.30 mm 5.0 ≤ t < 8.0mm : ± 0.40 mm 8.0 ≤ t < 12.0mm : ± 0.50 mm 12.0 ≤ t < 16.0mm : ± 0.60 mm 16.0 ≤ t < 20.0mm : ± 0.70 mm 20.0 ≤ t < 25.0mm : ± 0.80 mm 25.0 ≤ t to be agreed between supplier and customer	2.0≤t<3.0mm:±0.20 mm 3.0≤t<5.0mm:±0.30 mm 5.0≤t<8.0mm:±0.40 mm 8.0≤t<12.0mm:±0.50 mm 12.0≤t<16.0mm:±0.60 mm 16.0≤t<20.0mm:±0.70 mm 20.0≤t<25.0mm:±0.80 mm 25.0≤t to be agreed between supplier an customer
2.2	Cizo	EN 438-2.6	mm		
2.2	Size Straightness of edges	EN 438-2.6 EN 438-2.7	mm mm/m	Length and Width +10/-0 Straightness of edges ≤ 1.5	+ 05 / - 0 ≤ 1
2.4	Squareness	EN 438-2.7	mm/m	Squareness ≤ 1.5	≤1
	Flatness	LIV 730 2.0	mm/m	For 2.0 ≤ t < 6.00mm : 8	5
2.5	(measured on full size sheet)	EN 438-2.9	mm/m	For 6.0 ≤ t < 10.00mm : 5	3
2.5			mm/m	10.0 ≤ t : 3	2
3	PHYSICAL PROPERTIES		,		-
3.1	Resistance to Surface Wear	EN 438-2.10	Revolutions	Wear Resistance - Initial Point	Unicolours -≥ 200 Printed Décor -≥ 175
			Revolutions	Wear Resistance - Wear Value	Unicolours - ≥ 450 Printed Décor - ≥ 410
	Resistance to immersion in Boiling water	EN 438-2.12	%	Mass Increase - 2 ≤ T < 5 mm	≤ 2
			%	Mass Increase - T≥5 mm	≤1
3.2			%	Thickness Increase - 2 ≤ T < 5 mm	≤ 2
3.2			%	Thickness Increase - T≥ 5 mm	≤ 1.5
			Rating	Surface Rating - Gloss Finish	≥ 4
			Rating	Surface Rating - Other Finishes	≥5
			Rating	Edge Rating - Other Finishes Appearance - Gloss Finish	≥ 4 ≥ 4
3.3	Resistance to water vapour	EN 438-2.14	Rating Rating	Appearance - Other Finishes	≥ 4
			Rating	Appearance - Gloss Finish	≥ 4
3.4	Resistance to Dry heat @160°C	EN 438-2.16	Rating	Appearance - Other Finishes	≥ 4
			Longitudinal %	Appearance - Other rinishes	≤ 0.40
	Dimensional stability at elevated temperature	EN-438- 2.17	Transversal %	Cumulative dimensional change 2 ≤ T < 5 mm	≤ 0.80
3.5			Longitudinal %	Cumulative dimensional change T≥5 mm	≤ 0.30
			Transversal %		≤ 0.60
	Resistance to impact by large		mm	2≤ 6mm - 1400mm	≥ 1500
3.6	diameter ball	EN-438- 2.21	mm	T≥ 6mm - 1800mm	≥ 1900
3.7	Resistance to crazing	EN-438-2.24	Rating	Appearance	≥ 4
2 0	Resistance to Scratching	EN-438-2.25	Rating	Appearance - Smooth Finishes	≥3
3.8	nesistance to scratching		Rating	Appearance - Textured Finishes	≥ 3
3.9	Resistance to Staining	EN-438- 2.26	Rating Rating	Appearance - Group 1 & 2 Appearance - Group 3	<u>5</u> 5
3.10	Light Fastness (Xenon Arc)	EN-438-2.27	Degree	Contrast	5
3.11	Flexural Modulus	EN-ISO-178-2003	Мра	Stress ≥ 9000	9000-11500
	Flexural Strength	EN-ISO-178-2003	Мра	Stress≥ 80	≥ 120
	Tensile Strength	EN-ISO-572-2-1996	Мра	Stress≥ 60	60-90
	Density	EN-ISO 1183-1:2004	gm/ cm ³	≥ 1.35	≥ 1.4
4	FIRE PERFORMANCES				
	Fire Reaction			Test as per EN 13823 and EN ISO 11925-2 (Small-	burner test)
	Classification - CGS		Rating	Classification for T≥ 12 mm	C – s1, d0
4.1		EN 13501-1	Rating	Classification for 6≤ T < 12 mm	D – s2, d0
5	OTHER PROPERTIES				
5.1	Release of Formaldehyde	EN-438-7.4.11.1	Rating	Classification	E1