PRODUCT TECHNICAL SHEET



STYLAM COMPACT LAMINATES - LAB GRADE

Lab Grade Compact High Pressure Laminates (HPL) as per EN 438-4: 2016, 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.

No. METHOD MEASUREMENT CASPLET NO.	SR.	PROPERTIES	TEST	ATTRIBUTES OF PERFORMANCE	UNIT OF	RESULTS
Surface Quality	NO.		METHOD		MEASUREMENT	(AS PER EN 438-4)
2 DIMENSIONAL PROPERTIES EN 438-2.4 Spots, dirt and similar surface defects mm²/m² ≤ 1 Fibres, hairs and scratches mm/m² ≤ 10 DIMENSIONAL PROPERTIES		SUBSACS QUALTY		EN-438 Laminate Classification		CGS/CGF
2 DIMENSIONAL PROPERTIES EN 438-2.4 Fibres, hairs and scratches mm/m³ s 10	1	SURFACE QUALITY	1		mm2/m2	
2 DIMENSIONAL PROPERTIES 2.1 Thickness EN 438-2.5 Thickness tolerance mm 1 ≤ T < 2 : ± mm	1.1	Surface quality	EN 438-2.4			
2.1 Thickness				Fibres, hairs and scratches	mm/m-	≤ 10
2.1 Thickness EN 438-2.5 Thickness tolerance mm 2 ≤ T < 3 : 4 mm 3 ≤ T < 5 : 5 2.2 Size EN 438-2.6 Length and width mm + 10 / -1 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 Max, 8/1 2.5 Flatness EN 438-2.10 Wear Resistance Revolutions ≥ 350 3.1 Resistance to surface wear EN 438-2.10 Wear Resistance Revolutions ≥ 350 3.2 Resistance to immersion in boiling water EN 438-2.12 Thickness increase % CGF - ≤ 3.3 Resistance to water vapour EN 438-2.14 Appearance - Other Finishes Rating ≥ 4 3.4 Resistance to water vapour EN 438-2.14 Appearance - Other Finishes Rating ≥ 4 3.5 Dimensional stability at elevated temperatures EN 438-2.16 Appearance - Other Finishes Rating ≥ 3 3.6 Resistance to impact with large diameter ball EN 438-2.21 Indent. dia. 10mm - Drop Height mm ≥ 1400 3.7 Resistance to orazing EN 438-2.24 Appearance - Group 1 & 2 Rating ≥ 4 3.8 Resistance to orazing EN 438-2.25 Appearance - Group 1 & 2 Rating ≥ 4 3.9 Resistance to orazing EN 438-2.26 Appearance - Group 1 & 2 Rating ≥ 3 3.9 Resistance to orazing EN 438-2.26 Appearance - Group 1 & 2 Rating ≥ 4 3.10 Light fastness (Xenon arc) EN 438-2.27 Contrast Grey scale rating 4 to 5 3.11 Flexural modulus EN ISO 178 Stress Mpa ≥ 80 3.12 Flexural strength EN ISO 178 Stress Mpa ≥ 80 3.13 Density EN ISO 178 Stress Mpa ≥ 80 3.14 Fire Reaction Classification, EGS-EDS EN 135 01 Classification - T ≥ 10 mm Rating B - \$1, d Classification - T ≥ 10 mm Rating B - \$1, d Classification - T ≥ 10 mm Rating B - \$1, d Classification - T ≥ 10 mm Rating B - \$1, d Classification - T ≥ 10 mm Rating No more tha ratings:	2	DIMENSIONAL PROPERTIES				
2.2 Size	2.1	Thickness	EN 438-2.5	Thickness tolerance	mm	1 ≤ T < 2 : ± 0.15
2.2 Size EN 438-2.6 Length and width mm +10/-12 2.3 Straightness of edges EN 438-2.7 Straightness of edges mm/m ≤ 1,5 2.4 Squareness EN 438-2.9 Flatness (measured on full-size sheet) mm/m Max, 8,6 2.5 Flatness EN 438-2.9 Flatness (measured on full-size sheet) mm/m Max, 8,6 3.1 Resistance to surface wear EN 438-2.10 Wear Resistance Revolutions ≥ 350 3.2 Resistance to immersion in boiling water EN 438-2.12 Mass increase % CGF-≤ 3.2 Resistance to water vapour EN 438-2.14 Appearance - Gloss Finish Rating ≥ 3 3.4 Resistance to dry heat (160°C) EN 438-2.16 Appearance - Other Finishes Rating ≥ 4 4.5 Dimensional stability at elevated temperatures EN 438-2.17 Cumulative dimensional change - 2 ≤ L% ≤ 0,40 5.6 Resistance to impact with large diameter ball EN 438-2.21 Indent. dia. 10mm - Drop Height mm ≥ 1400 3.7 <td< td=""><td></td><td>2 ≤ T < 3 : ± 0.2</td></td<>						2 ≤ T < 3 : ± 0.2
2.3 Straightness of edges EN 438-2.7 Straightness of edges mm/m ≤ 1,5 Squareness EN 438-2.8 Squareness mmm/m ≤ 1,5 Squareness EN 438-2.9 Flatness (measured on full-size sheet) mmm/m Max, 8,1 PHYSICAL PROPERTIES 3.1 Resistance to surface wear EN 438-2.10 Wear Resistance Revolutions ≥ 350 3.2 Resistance to immersion in boiling water boiling water EN 438-2.11 EN 438-2.12 Flatness (measured on full-size sheet) mmm/m Max, 8,1 Mass increase Revolutions ≥ 350 3.3 Resistance to immersion in boiling water EN 438-2.14 Appearance — Gloss Finish Rating ≥ 3 3.4 Resistance to water vapour EN 438-2.14 Appearance — Gloss Finish Rating ≥ 3 3.5 Appearance — Other Finishes Rating ≥ 4 3.6 Appearance — Other Finishes Rating ≥ 4 3.7 Appearance — Other Finishes Rating ≥ 4 3.8 Appearance — Other Finishes Rating ≥ 4 3.9 Appearance — Other Finishes Rating ≥ 4 3.10 Light fastnes to impact with large diameter ball EN 438-2.24 Appearance — Smooth Finishes Rating ≥ 4 3.8 Resistance to impact with large diameter ball EN 438-2.25 EN 438-2.25 Appearance — Smooth Finishes Rating ≥ 2 3.9 Resistance to straining EN 438-2.26 Appearance — Smooth Finishes Rating ≥ 2 3.9 Resistance to staining EN 438-2.25 Appearance — Smooth Finishes Rating ≥ 3 3.9 Resistance to staining EN 438-2.26 Appearance — Smooth Finishes Rating ≥ 3 3.9 Resistance to staining EN 438-2.27 Contrast Grey scale rating ≥ 4 3.10 Light fastness (Xenon arc) EN 438-2.27 Contrast Grey scale rating ≥ 4 3.11 Flexural modulus EN ISO 178 Stress Mpa ≥ 9000 3.12 Flexural strength EN ISO 178 Stress Mpa ≥ 9000 3.13 Density EN ISO 178 Stress Mpa ≥ 9000 3.14 Fire Reaction Classification, EN 135 01 Classification → T ≥ 10 mm Rating B – \$1, described EN 150 179 ≥ 1, 35 01 4. Fire Reaction Classification, EN 135 01 Classification → T ≥ 10 mm Rating B – \$1, described EN 150 179 ≥ 1, 35 01 5. OTHER PROPERTIES 5.1 Chemical/stain resistance SEFA 3-2010 Sect. 2.1 Classification → T ≥ 10 mm Rating B – \$1, described EN 150 179 ≥ 10 mm Rating B – \$1, described EN 150 179 ≥ 10 mm Ratin	2.2	Sizo	EN 429 2 6	Longth and width		
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3.1 Resistance to surface wear EN 438-2.12 Wear Resistance Revolutions ≥ 350 Mass increase % CGF - ≤ Thickness increase % % CGF - ≤ Thickness increase floss insh Rating ≥ 3 Appearance - Other Finishes Rating ≥ 3 Appearance - Other Finishes Rating ≥ 4 Appearance - O				·		
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Appearance - Other Finishes Rating ≥ 4 3.3 Resistance to water vapour EN 438-2.14 3.4 Resistance to dry heat (160°C) 3.5 Dimensional stability at elevated temperatures EN 438-2.17 3.6 Resistance to impact with large diameter ball EN 438-2.21 Indent. dia. 10mm - Drop Height mm ≥ 1400 3.7 Resistance to crazing EN 438-2.25 Appearance - Smooth Finishes Rating ≥ 4 3.8 Resistance to scratching EN 438-2.25 Appearance - Smooth Finishes Rating ≥ 4 3.9 Resistance to staining EN 438-2.25 Appearance - Textured Finishes Rating ≥ 3 3.10 Light fastness (Xenon arc) EN 438-2.27 Contrast Grey scale rating ≥ 4 3.11 Flexural modulus EN ISO 178 Stress Mpa ≥ 9000 3.12 Flexural strength EN ISO 178 Stress Mpa ≥ 80 3.13 Density EN ISO 178 Stress Mpa ≥ 80 3.14 Fire Reaction Classification, EGS-EDS Fire Rating EST 3-2010 Sect. 2.1 5.1 Chemical/stain resistance SEFA 3-2010 Sect. 2.1 5.1 Chemical/stain resistance SEEA 3-2010 Sect. 2.1 5.2 Chemical/stain resistance SEEA 3-2010 Sect. 2.1 5.1 Chemical/stain resistance SEEA 3-2010 Sect. 2.1 5.2 Chemical/stain resistance SEEA 3-2010 Sect. 2.1 5.2 Chemical/stain resistance SEEA 3-2010 Sect. 2.1 5.3 Chemical/stain resistance SEEA 3-2010 Sect. 2.1 5.4 Fire Reaction Page Appearance - Other Finishes Rating Appearance - 2						
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Appearance - Group 3 Rating ≥ 4 3.10 Light fastness (Xenon arc) EN 438-2.27 Contrast Grey scale rating 4 to 5 3.11 Flexural modulus EN ISO 178 Stress Mpa ≥ 9000 3.12 Flexural strength EN ISO 178 Stress Mpa ≥ 80 3.13 Density EN ISO 1183 Density gm/cm³ ≥ 1,35 4 FIRE PERFORMANCES Test as per EN 13823 (SBI test) and EN ISO 11925-2 (Small-burner test) 4.1 Fire Reaction Classification, EGF-EDF 4.2 Fire Reaction Classification, EGS-EDS 5 OTHER PROPERTIES 5.1 Chemical/stain resistance SEFA 3-2010 Sect. 2.1 EN 438-	5.6	nesistance to scrattining	LN 430-2.23	• •	Rating	≥3
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Fire Reaction Classification, EGF-EDF EN 135 01 Classification - $3 \le T < 6 \text{ mm}$ Rating B - s2, description of the control of the cont	3.13	Density	EN ISO 1183	Density	gm/cm³	≥ 1,35
4.1 EGF-EDF Classification - T \geq 6 mm Rating B - s1, d 4.2 Fire Reaction Classification, EGS-EDS EN 135 01 Classification - T \geq 10 mm Rating B - s1, d 5 OTHER PROPERTIES 5.1 Chemical/stain resistance SEFA 3-2010 Sect. 2.1 Classification Rating Rating No more that ratings-	4					
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5 OTHER PROPERTIES 5.1 Chemical/stain resistance SEFA 3-2010 Classification Rating No more that ratings-3	4.2	,	EN 135 01	Classification - T ≥ 10 mm		B - s1, d0
5.1 Chemical/stain resistance SEFA 3-2010 Classification Rating No more that ratings-3	5					
Sect. 2.1 Classification Rating ratings-3			SEFA 3-2010	Classification	Rating	No more than four
EN /38_				Classification		ratings-3
5.2 Release of Formaldehyde Classification Rating E1	5.2	Release of Formaldehyde	EN 438-	Classification	Rating	E1

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.

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