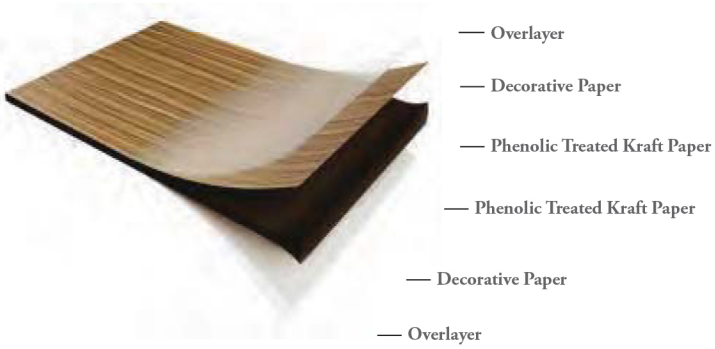
STAR

DNSM

Technical Data For Standard Grade Compact Laminate as per EN 438-4 : 2016

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
				mm	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 : 8,0
				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
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
			Appearance - Other Finishes	Rating	≥ 4
			Appearance - Edge Rating	Rating	≥ 3
3.3	Resistance to water vapour	EN 438-2.14	Appearance - Gloss Finish	Rating	≥ 3
			Appearance - Other Finishes	Rating	≥ 4
3.4	Resistance to dry heat (180°C)	EN 438-2.16	Appearance - Gloss Finish	Rating	≥ 3
			Appearance - Other Finishes	Rating	≥ 4
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 Heigh	mm	≥ 1400
			Indent. dia. 10mm T≥6mm - Drop Heigh	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	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/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
4.2	Fire Reaction Classification, CGF		Classification - 3 ≤ T < 6 mm	Rating	B - s2, d0
			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



What is a Compact Laminate?

Compact is a high pressure structural laminate, built up from multiple layers of Kraft paper to produce a laminate in thicknesses from 2-25mm. It has a decorative face on both sides and is ideal for interior use in washroom cubicles or locker doors, wall panels or laboratory furniture. It is particularly suited to use in high humidity, high impact areas. With a density of 14Kg/m2(for 10mm thickness), Compact is impressively strong and damage resistant and has remarable structural stability, requiring no substrate support in thicknesses over 6mm.

Our compact confirms to EN 438-4:2016 and meets conformity with European Consumer Safety, health and environmental requirements.

Standard Sizes: 1830mm x 3660mm,1830mm x 4300mm
Standard Thickness: 2-25mm

Benefits of Compact laminates

- Exceptional self supporting properties
- Greater dimensional stability and flatness
- Resistance to Abrasion
- Resistance to Fire
- Excellent hygiene properties
- Resistance to harmful chemicals and organic solvents
- Simple and quick assembly without the need for edging and adhesive
- In case of combustion, emits low amount of harmful gasses and fumes

Compact Application:

Compact laminates available in elegant solid, versatile abstracts and genuine wood patterns. Add value and uniqueness with decors that can blend well with contemporary lifestyles in various setups like

- Toilet & Shower Cubicles
- Interior wall cladding
- School Bench
- Educational Furniture
- Outdoor benches
- Fire resistant and anti static work environments
- Kitchen tops
- Office work tops
- Lockers
- Kitchen bench tops & Cabinetry
- Bathroom Board
- Laboratory work tops
- Kid's furniture
- Partitions