Technical Data Sheet

G-Com®

G-Com® is compact laminate which is manufactured in the same process of HPL.

The thickness is determined by increasing the amount of kraft paper in the core of the sheets. G-Com® compact laminates are supplied in different sizes of sheets and are the most practical materials for use in special areas; particularly in wet areas, areas seeking high impact resistancy, areas having high humidity like toilet cubicles and changing rooms, wall covering in schools, sports centers, public transportation vehicles, hospitals, airports and hotels.

It has high resistance to impacts, scratches, fire, water and humidity due to its advanced technology. Furthermore, it does not decompose, is resistant to bacterias and can be cleaned easily.

It presents a great variety of design alternatives thanks to the wide range of colours available and different surface and size options.

EN Classification		CGS, CGF
EN 438-4	Thickness Range	1,5mm - 20mm
	Dimensions	940x2140mm / 1220x2440mm / 1300x2800mm 1300x3050mm / 1400x3660mm / 1540x3050mm 1540x3660mm / 1860x4200mm

WATER REPELLANT | DRY HEAT RESISTANCE | SCRATCH & ABRASION RESISTANCE | LOW LIGHT REFLECTIVITY | HEAT & COLD RESISTANCE | EASY TO CLEAN | ULTRA COLOR INTENSITY | SAFE FOOD CONTACT | IMPACT RESISTANCE | RESISTANCE TO HOUSEHOLD CHEMICAL

Characteristics	Test Method	Test Value	Required Value
Thickness	EN 438-2 section 5	According to the required thickness	2.0 ≤ t < 3.0 mm : ± 0.20 mm 3.0 ≤ t < 5.0 mm : ± 0.3 mm 5.0 ≤ t < 8.0 mm : ± 0.4 mm 8.0 ≤ t < 12.0 mm : ± 0.5 mm 12.0 ≤ t < 16.0 mm : ± 0.6 mm 16.0 ≤ t < 20.0 mm : ± 0.7 mm 20.0 ≤ t < 25.0 mm : ± 0.8 mm 25.0 ≤ t : According To Agreement customer / producer
Density	ISO 1183 - 1	1.4 gr/cm^3	Min. 1.35 gr/cm^3
Wear Resistance	EN 438-2 section 10 CGS	IP = 185 Rev. Wear Value = 485 Rev.	Initial Point ≥ 150 Rev. Wear Value ≥ 350 Rev.
Scratch Resistance	EN 438-2 section 25 CGS	3 N 4 N	Flat Surface Min. 2 N Textured Surface Min. 3 N
Impact Resistance	EN 438-2 Big Ball section 21 CGS 2.0 ≤ t < 6.0 mm t ≥ 6.0 mm	 No Crack , 4.5 mm No Crack , 3.5 mm	 1400 mm height: no crack, 10 mm Max. 1800 mm height: no crack, 10 mm Max.
Resistance To Crazing (20 Hours @ 80°c)	EN 438-2 section 24 CGS	Level 4	Min. level 4
Resistance to Dry Heat at 180°c	EN 438-2 section 16 CGS Glossy Surface Finish Other Surface Finish	 Level 4 Level 5	 Min. level 3 Min. level 4
Resistance to Water Vapor	EN 438-2 section 14 CGS Glossy Surface Finish Other Surface Finish	 Level 4 Level 5	 Min. Level 3 Min. Level 4
Resistance to Boiling Water	EN 438-2 section 12 CGS 2.0 ≤ t < 5.0 mm t ≥ 5.0 mm Glossy Surface Finish Other Surface Finish	 2.2% 3.1% 0.55% 0.65% Level 4 Level 5	 Max. 5% in weight Max. 6% in thickness Max. 2% in weight Max. 2% in thickness Min. Level 3 Min. Level 4

Characteristics	Test Method	Test Value	Required Value
Resistance to Cigarette Burn	EN 438-2 section 30 CGS	Level 4	Min. Level 3
Resistance to Staining	EN 438-2 section 26 CGS		
	Group 1 + 2	Level 5	Min. level 5
	Group 3	Level 5	Min. level 4
Durability of surface finish and adhesion of surfacing and edging materials	BS 6222 : 1999	Level 5 Pass	Min. rating 4
Flatness	EN 438-2 section 9 CGS		
	2.0 ≤ t < 6.0 mm	1.23 mm	Max. 8 mm / 1 M length
	6.0 ≤ t < 10.0 mm	1.46 mm	Max. 5 mm / 1 M length
	t ≥ 10.0 mm	1.87 mm	Max. 3 mm / 1 M length
Light fastness	EN 438-2 section 27 CGS		
	Grey Scale	Level 5	Min. level 4
High Temp. stability 70°c	EN 438-2 section 17 CGS		
	2.0 ≤ t ≤ 5.0 mm	L : 0.22 mm W : 0.35 mm	L : Max. 0.4 mm W : Max. 0.8 mm
	t ≥ 5.0 mm	L : 0.18 mm W : 0.23 mm	L : Max. 0.3 mm W : Max. 0.6 mm
Fire Classification	EN 13501-1		
	3.0 ≤ t < 6.0 mm CGS	D s1 d0 ERA 14-000268	D s2 d0 or better
	6.0 ≤ t < 8.0 mm CGS	D s1 D0 ERA 16 115	D s2 d0 or better
	8.0 mm CGS	B s1 d0 ERA 17 094	D s2 d0 or better
	10 ≤ t < 25.0 mm CGS	B s1 d0 ERA 16 074	D s2 d0 or better
Tensile Strength	EN ISO 527 – 2 CGS	\ 85 MPa	Min. 60 MPa
Flexural Strength	EN ISO 178 CGS	114 MPa	Min. 80 MPa
Flexural Modulus	EN ISO 178 CGS	16,522 Mpa	Min. 9000 Mpa
Coefficient Of Linear Thermal Expansion (COTE)	ASTM D696-08[3]	6.0×10^{-6} mm / mm °c	—
Total Volatile Organic Compound Emission	ASTM D5116	< 0.010 mg/m²/hr	< 0.5 mg/m²/hr

Remarks :
@ CGS = Compact Grade Standard Laminate
@ Required Values Based on 438-4