



Technical Data Sheet

G-Morpho®

G-Morpho® is produced by placing aluminium layers in between the core of compact laminate to enhance the aesthetic appearance of the final product.

G-Morpho® is machined in the same way like compact laminate. It is mostly used in table and counter applications with various designs in interior decorations.

Recommended conditions:

Temperature should be between +15C° & +35C° degrees and 30 % & 70 % relative humidity.

EN Classification		CGS, CGF
EN 438 - 4	Thickness Range	3mm - 20mm
	Dimensions	1220x2440 mm, other sizes upon request.


WATER
REPELLANT


DRY HEAT
RESISTANCE


SCRATCH &
ABRASION
RESISTANCE


LOW LIGHT
REFLECTIVITY


HEAT & COLD
RESISTANCE


EASY TO
CLEAN


ULTRA COLOR
INTENSITY


IMPACT
RESISTANCE


RESISTANCE TO
HOUSEHOLD
CHEMICAL

Characteristics	Test Method	Required Value
Thickness	EN 438-2 section 5	$2.0 \leq t < 3.0 \text{ mm} : \pm 0.20 \text{ mm}$ $3.0 \leq t < 5.0 \text{ mm} : \pm 0.3 \text{ mm}$ $5.0 \leq t < 8.0 \text{ mm} : \pm 0.4 \text{ mm}$ $8.0 \leq t \leq 12.0 \text{ mm} : \pm 0.5 \text{ mm}$ $12.0 \leq t < 16.0 \text{ mm} : \pm 0.6 \text{ mm}$ $16.0 \leq t < 20.0 \text{ mm} : \pm 0.7 \text{ mm}$ $20.0 \leq t < 25.0 \text{ mm} : \pm 0.8 \text{ mm}$ $25.0 \leq t : \text{According To Agreement customer / producer}$
Density	ISO 1183 - 1	Min. 1.35 gr/cm ³
Wear Resistance	EN 438-2 section 10 CGS	Initial Point ≥ 150 Rev. Wear Value ≥ 350 Rev.
Scratch Resistance	EN 438-2 section 25 CGS	Flat Surface Min. 2 N Textured Surface Min. 3 N
Impact Resistance	EN 438-2 Big Ball section 21 CGS $2.0 \leq t < 6.0 \text{ mm}$ $t \geq 6.0 \text{ mm}$	 1400 mm height : no crack , 10 mm Max. 1800 mm height : no crack , 10 mm Max.
Surface Crack @ 80°C 20 Hours	EN 438-2 section 24 CGS	Min. level 4
Resistance to Dry Heat at 180°C	EN 438-2 section 16 CGS Glossy Surface Finish Other Surface Finish	 Min. level 3 Min. level 4
Resistance to Water Vapor	EN 438-2 section 14 CGS Glossy Surface Finish Other Surface Finish	 Min. Level 3 Min. Level 4
Resistance to Boiling Water	EN 438-2 section 12 CGS $2.0 \leq t < 5.0 \text{ mm}$ $t \geq 5.0 \text{ mm}$ Glossy Surface Finish Other Surface Finish	 Max. 5% in weight Max. 6% in thickness Max. 2% in weight Max. 2% in thickness Min. Level 3 Min. Level 4
Resistance to Cigarette Burn	EN 438-2 section 30 CGS	Min. Level 3

Characteristics	Test Method	Required Value
Resistance to Staining	EN 438-2 section 26 CGS Group 1 + 2 Group 3	Min. level 5 Min. level 4
Flatness	EN 438-2 section 9 CGS $2.0 \leq t < 6.0$ mm $6.0 \leq t < 10.0$ mm $t \geq 10.0$ mm	Max. 8 mm / 1 M length Max. 5 mm / 1 M length Max. 3 mm / 1 M length
Light fastness	EN 438-2 section 27 CGS Grey Scale	Min. level 4
High Temp. stability 70°C	EN 438-2 section 17 CGS $2.0 \leq t < 5.0$ mm $t \geq 5.0$ mm	L : Max. 0.4 mm W : Max. 0.8 mm L : Max. 0.3 mm W : Max. 0.6 mm
Tensile Strength	EN ISO 527 – 2 CGS	Min. 60 MPa
Bending Strength	EN ISO 178 CGS	Min. 80 MPa

Remarks :

@ CGS = Compact Grade Standard Laminate

@ Required Values Based on 438-4