



Technical Data Sheet

G-Sign®

G-Sign® has different coloured layers within the core. It is used by engraving the outer surface to reveal the coloured core and the most common application is signages.

It has high resistance, against scratches and can be easily cleaned. It is an ideal product for signage boards, signs, as well as areas where identification cards needed like hospitals, schools, hotels, offices and factories.

EN Classification		VGS, CGS
EN 438 3 / 4	Thickness Range	1,5 mm - 20 mm
	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	$2.0 \leq t < 3.0$ mm : ± 0.20 mm $3.0 \leq t < 5.0$ mm : ± 0.3 mm $5.0 \leq t < 8.0$ mm : ± 0.4 mm $8.0 \leq t \leq 12.0$ mm : ± 0.5 mm $12.0 \leq t < 16.0$ mm : ± 0.6 mm $16.0 \leq t < 20.0$ mm : ± 0.7 mm $20.0 \leq t < 25.0$ mm : ± 0.8 mm $25.0 \leq t$: According To Agreement customer / producer
Density	ISO 1183 - 1	Min. 1.35 gr/cm ³
Wear Resistance	EN 438-2 section 10 VGS , CGS	Initial Point ≥ 150 Rev. Wear Value ≥ 350 Rev.
Scratch Resistance	EN 438-2 section 25 VGS , CGS	Flat Surface Min. 2 N Textured Surface Min. 3 N
Impact Resistance	EN 438-2 Big Ball section 21 VGS , CGS $2.0 \leq t < 6.0$ mm $t \geq 6.0$ 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 VGS , CGS	Min. level 4
Resistance to Dry Heat at 180°C	EN 438-2 section 16 VGS , CGS Glossy Surface Finish Other Surface Finish	Min. level 3 Min. level 4
Resistance to Water Vapor	EN 438-2 section 14 VGS , CGS Glossy Surface Finish Other Surface Finish	Min. Level 3 Min. Level 4
Resistance to Boiling Water	EN 438-2 section 12 VGS , CGS $2.0 \leq t < 5.0$ mm $t \geq 5.0$ 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

Characteristics	Test Method	Required Value
Resistance to Cigarette Burn	EN 438-2 section 30 VGS , CGS	Min. Level 3
Resistance to Staining	EN 438-2 section 26 VGS , CGS Group 1 + 2 Group 3	Min. level 5 Min. level 4
Flatness	EN 438-2 section 9 VGS , 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 VGS , CGS Grey Scale	Min. level 4
High Temp. stability 70°C	EN 438-2 section 17 VGS , 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 VGS , CGS	Min. 60 MPa
Bending Strength	EN ISO 178 VGS , CGS	Min. 80 MPa

Remarks :

@ CGS = Compact Grade Standard Laminate

@ VGS = Vertical Grade Standard Laminate

@ Required Values Based on 438-4