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G-Com Technical Data Sheet (1)

Characteristics	Test Method	Tested 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 secction 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 Büyük Bilye 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

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G-Com Technical Data Sheet (2)

Characteristics	Test Method	Tested Value	Required Value
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
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 Group 3	 Level 5 Level 5	 Min.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 6.0 ≤ t 10.0 mm< t ≥ 10,0 mm	 1,23 mm 1,46 mm 1,87 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	 Level 5	 Min. level 4
Dimensional Stability at Elevated Temp. (70°c)	EN 438-2 bölüm 17 CGS 2.0 ≤ t ≤ 5.0 mm t ≥ 5,0 mm	 L: 0.22% W: 0.35% L: 0.18% W: 0.23%	 L: Max. %0.4 W : Max.% 0.8 L: Max. %0.3 W : Max. % 0.6

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G-Com Technical Data Sheet (3)

Characteristics	Test Method	Tested Value	Required Value
Fire Classification	13501-1 3.0 ≤ t 6.0 mm < CGS	D s1 d0 ERA 14-000268	D s2 d0 or better
	6.0 ≤ t < 8 mm CGS	D s1 D0 ERA 16 115	D s2 d0 or better
	8 ≤ t < 10 mm	C s1 d0	D s2 d0 or better
	CGS12 ≤ T < 25,0 mm CGS	B s1 d0 ERA 19 036	D s2 d0 or better
Burning Behavior and / or the capability to repel fuel or lubricant of materials used in the interior construction With regard to directive / regulation (EC/EU) / Regulation No. ECE-R118 Part II Taking into consideration amendment No. 02 , Supplement 03	Yatay Yanma Hızı Testi acc. ECE-R 118.02 Ek 6'ya göre FMVSS 302 (ABD) CMVSS 302 (Kanada) 6 mm	Horizontal burning rate 0 mm/min	Horizontal burning rate Max. 100 mm/min
Burning Behavior and / or the capability to repel fuel or lubricant of materials used in the interior construction With regard to directive / regulation (EC/EU) / Regulation No. ECE-R118 Part II Taking into consideration amendment No. 02 , Supplement 03	Dikey Yanma Hızı Testi acc. ECE-R 118.02 Ek 8'e göre 6 mm	Material has not dropped and cotton wool is not inflamed	Material will not drop and cotton wool will not inflamed

G-Com Technical Data Sheet (3)

Özellikler	Test Metodu	Test Edilen Değer	İstenilen Değer
Burning Behavior and / or the capability to repel fuel or lubricant of materials used in the interior construction With regard to directive / regulation (EC/EU) / Regulation No. ECE-R118 Part II Taking into consideration amendment No. 02 , Supplement 03	Vertical Burning rate Test acc. To ECE-R 118.02 Annex 8 6 mm	Vertical burning rate 0 mm/min	Vertical burning rate Max. 100 mm/min

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G-Com Technical Data Sheet (4)

Characteristics	Test Method	Tested Value	Required Value
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 x 10-6 mm / mm °c	---
Total Volatile Organic Compound Emission	ASTM D5116	< 0.010 mg/m2/hr	< 0.5 mg/m2/hr
Formaldehyde Emission	EN 717-1 10 mm	0.04 mg/m3 0,03 ppm	≤ 0,124 0,1 ppm (E1 Class)
Release of dangerous substances	UNI EN 16516: 2020 10 mm	0.057 mg/m3 0,05 ppm	≤ 0,124 0,1 ppm (E0.5 Class)

G-Com Technical Data Sheet (4)

Characteristics	Test Method	Tested Value	Required Value
Contact With Food – Overall Migration	EN 1186-3 Acetic Acid %3 w/w	9.6 mg/dm^2	< 10 mg/dm^2
	EN 1186-14 Ethanol %10 w/w	4,3 mg/dm^2	< 10 mg/dm^2
	EN 1186-14 Ethanol %95 w / w	< 2 mg/dm^2	< 10 mg/dm^2
Chlorine Surface Resistance	Gentas Internal test Method	See Table below	---
Hydrogen Peroxide Surface Resistance	Gentas Internal test Method	See Table below	---
Antiseptics & Sanitizers Surface Resistance	Gentas Internal test Method	See Table below	---

Remarks :

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

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Chlorine Surface Resistance Test(6) :

3096(1) / 4596(2) ; 8 mm(3); Velur 1400x3600 ; 1000 ppm concentration (4)

Duration(5) Decor	1 Hour	2 Hour	4 Hour	8 Hour	12 Hour	24 Hour
3096(1) Rating Scale(7)	0	0	0	0	0	0
4596(2) Rating Scale(7)	0	0	0	0	0	0

3096(1) / 4596(2) ; 8 mm(3); Velur 1400x3600 ; 1000 ppm concentration (4)

Duration (5) Decor	1 Hour	2 Hour	4 Hour	8 Hour	12 Hour	24 Hour
3096(1) Rating Scale(7)	0	0	0	0	0	0

Remarks :

(1)3096 Plain décor CGS

(2)4596 Printed décor CGS

(3)8 mm pressed in Velur finish in size 1400 x 3600

(4)1000 and 10,000 ppm water base solutions

(5)Duration according to Tables ; Test method according to the below instructions ; Rating Scale according to the below instructions

Remarks :

(6)Test method :
-With a pipette drop 5 drops from the tested concentration and cover with a laboratory glass cover
-After the required duration , remove the glass cover , rains with water and wiper with a dry cotton cloth
-Examine the tested samples according to the below rating scale and advice with a test report
(7)Rating Scale : Level 0 – No Detectable Change for naked eye
Level 1 – Slight Change in Color or Gloss or surface structure
Level 2 – Slight Surface Etching or Severe Staining
Level 3 – Pitting / Cracking / Swelling / Erosion of the surface
Level 4 - Obvious & Significant Deterioration of the surface

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Hydrogen Peroxide Surface Resistance Test([1,5]) :

3103[(2)] ; 4 mm Mat 1300x3050[(3)]

Duration (4) Decor	12 Hours	24 Hours
3103[(2)] Rating Scale[(6)]	0	0

Remarks :

1)Hydrogen Peroxide 30% (H2O2 30%)
2)3103 Plain décor CGS
3)4 mm pressed in Matt finish in size 1300 x 3050
4)Exposure Duration according to Tables .
5)Test method :
-With a pipette place 5 drops from the tested H2O2 30% and cover with a laboratory glass cover
-After the required duration , remove the glass cover , rains with water and wiper with a dry cotton cloth
-Examine the tested samples according to the below rating scale and advice with a test report
6)Rating Scale : Level 0 – No Detectable Change for naked eye
Level 1 – Slight Change in Color or Gloss or surface structure
Level 2 – Slight Surface Etching or Severe Staining
Level 3 – Pitting / Cracking / Swelling / Erosion of the surface
Level 4 - Obvious & Significant Deterioration of the surface

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Antiseptics & Sanitizers Surface Resistance Test([1,8])

3103[2] ; 4 mm Matt 1300x3050[3]

Duration (4) Reagent	12 Hours Rating[9]	24 Hours Rating[9]
Benzethonium Chloride 2%[5]	0	0
Domiphen Bromide 4% [6]	0	0
Benzalkonium Chloride 4% [7]	0	0
Isopropyl Alcohol (IPA 70%)	0	0

Remarks :

1) The surface resistance is tested against common Antiseptics and Sanitizers available and common in the market

2) 3103 Plain décor CGS

3) 4 mm pressed in Matt finish in size 1300 x 3050

4) Exposure Duration according to Tables .

5) Benzethonium Chloride 2% (Antiseptic & Disinfectant)

6) Domiphen Bromide 4% (Antiseptic)

7) Benzalkonium Chloride 4% (Antiseptic)

8) Test method :

-With a pipette place 5 drops from the tested reagent and cover with a laboratory glass cover

-After the required duration , remove the glass cover , rains with water and wiper with a dry cotton cloth

-Examine the tested samples according to the below rating scale and advice with a test report

9) Rating Scale : Level 0 – No Detectable Change for naked eye

Level 1 – Slight Change in Color or Gloss or surface structure

Level 2 – Slight Surface Etching or Severe Staining

Level 3 – Pitting / Cracking / Swelling / Erosion of the surface

Level 4 - Obvious & Significant Deterioration of the surface