

# Infiniti CGS

Characteristic	Method	Unit of Measure	Infiniti CGS
Nominal Thickness		mm	2-25
Surface Defects	EN438:2016-2-4	mm <sup>2</sup> /m <sup>2</sup> mm/m <sup>2</sup>	≤ 1 ≤ 10
	Dirt/Spots Fibres/Hairs/Scratches		
Thickness	EN438:2016-2-5	mm	# 1
Length & Width	EN438:2016-2-6	mm	-0 / +10
Squareness	EN438:2016-2-7	mm/m	≤ 1.5
Edge Straightness	EN438:2016-2-8	mm/m	≤ 1.5
Flatness	EN438:2016-2-9	mm/m	# 2
Surface Wear Resistance	EN438:2016-2-10	revolutions	≥ 200
Immersion in Boiling Water	EN438:2016-2-12	Class	4 5.0 2.0 6.0 2.0 3
	Appearance Mass Increase (2mm ≤ thickness < 5mm) Mass Increase (thickness ≥ 5mm) Thickness Increase (2mm ≤ thickness < 5mm) Thickness Increase (thickness ≥ 5mm) Edge rating	% % % %	
Resistance to Water Vapour	EN438:2016-2-14	Class	4
Resistance to Wet Conditions	EN438:2016-2-15	Class	/ / /
	Appearance Mass Increase (2mm ≤ thickness < 5mm) Mass Increase (thickness ≥ 5mm)		
Resistance to Dry Heat (160°C)	EN438:2016-2-16	Class	4
Resistance to Wet Heat (100°C)		Class	4
Dimensional Stability	EN438:2016-2-17	%	/ 0.4 0.3 / 0.8 0.6
	Longitudinal (2mm ≤ thickness < 5mm) (Thickness ≥ 5mm) Transverse (2mm ≤ thickness < 5mm) (Thickness ≥ 5mm)		
Resistance to Climatic Shock	EN438:2016-2-19	Class Ds Dm	/ / /
	Appearance Flexural Strength Index Flexural Modulus Index		
Impact Resistance (Small Ball)	EN438:2016-2-20	N	/
Impact Resistance (Large Ball)	EN438:2016-2-21	mm mm	1400 1800
	Height of Fall (2mm ≤ thickness < 6mm) Height of Fall (thickness ≥ 5mm)		
Resistance to Cracking	EN438:2016-2-23	Class	/
Resistance to Crazeing	EN438:2016-2-24	Class	4
Scratch Resistance	EN438:2016-2-25	Class	3
Stain Resistance	EN438:2016-2-26	Class	5 4
	Group 1 & 2 Group 3		
Light Fastness	EN438:2016-2-27	Grey Scale	4 to 5
Resistance to UV	EN438:2016-2-28	Grey Scale Class	/ /
	Contrast (1500hr) Appearance (1500hr)		
Resistance to Artificial Weathering	EN438:2016-2-29	Class	/ / / /
	Contrast (335 MJ/m <sup>2</sup> ) Contrast (650 MJ/m <sup>2</sup> ) Appearance (325 MJ/m <sup>2</sup> ) Appearance (650 MJ/m <sup>2</sup> )		
Postforming Radius	EN438:2016-2-31	Minimum Radius mm	/
Resistance to Blistering	EN438:2016-2-33	Class	/
Density		g/cm <sup>3</sup>	≥ 1.38
Fire Rating			

#1 Compact Tolerance - Nominal Thickness 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0  
Tolerance ± mm 0.2 0.3 0.3 0.4 0.4 0.4 0.5 0.5 0.5 0.5 0.6 0.6 0.6 0.6 0.7 0.7 0.7 0.7 0.8

#2 Compact Flatness - Nominal Thickness 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0  
Compact Flatness 8 8 8 8 5 5 5 5 3 3 3 3 3 3 3 3 3 3 3

EN438 Class Definitions - Class 5 No visible change      Class 4 Slight loss of gloss and or colour      Class 3 Moderate loss of gloss and or colour  
Class 2 Marked loss of gloss and or colour      Class 1 Blisters and or delamination