

# INFINITI HGF

Characteristic

Method

Unit of Measure INFINITI HGF

Nominal Thickness			mm	0.7
Surface Defects	Dirt/Spots Fibres/Hairs/Scratches	EN438:2016-2-4	mm <sup>2</sup> /m <sup>2</sup> mm/m <sup>2</sup>	≤ 1 ≤ 10
Thickness		EN438:2016-2-5	mm	± 0.1
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	≤ 60
Surface Wear Resistance		EN438:2016-2-10	revolutions	≥ 200
Immersion in Boiling Water	Appearance Mass Increase (2mm ≤ thickness < 5mm) Mass Increase (thickness ≥ 5mm) Thickness Increase (2mm ≤ thickness < 5mm) Thickness Increase (thickness ≥ 5mm) Edge rating	EN438:2016-2-12	Class % % % % %	4 / / / / /
Resistance to Water Vapour		EN438:2016-2-14	Class	>4
Resistance to Dry Heat (160°C)		EN438:2016-2-16	Class	>4
Resistance to Wet Heat (100°C)			Class	>4
Dimensional Stability	Longitudinal (2mm ≤ thickness < 5mm) (Thickness ≥ 5mm) Transverse (2mm ≤ thickness < 5mm) (Thickness ≥ 5mm)	EN438:2016-2-17	%	≤ 0.65 / / ≤ 1.07 / /
Impact Resistance (Small Ball)		EN438:2016-2-20	N	≥ 30
Impact Resistance (Large Ball)	Height of Fall (2mm ≤ thickness < 6mm)	EN438:2016-2-21	mm	>1000
Resistance to Cracking		EN438:2016-2-23	Class	>4
Resistance to Crazing		EN438:2016-2-24	Class	/
Scratch Resistance		EN438:2016-2-25	Class	4
Stain Resistance	Group 1 & 2 Group 3	EN438:2016-2-26	Class	5 4
Light Fastness		EN438:2016-2-27	Grey Scale	4 to 5
Resistance to UV	Contrast (1500hr) Appearance (1500hr)	EN438:2016-2-28	Grey Scale Class	/ /
Postforming Radius		EN438:2016-2-31	Minimum Radius mm	8mm
Resistance to Blistering		EN438:2016-2-33	Seconds	≥ 10
Formaldehyde emissions		EN717 EN13986	Mg/(m <sup>2</sup> xh)	0.39 E1
VOC		Greenguard Std		Gold
Evaluation of micro-organism action	% reduction in bacterial viability Log Reduction	JIZ 2801	%	99.9 >2.2
Acid resistance		SEFA -8 section 8.1		Pass
Density			g/cm <sup>3</sup>	≥ 1.38
Fire Rating	FR grade			C-s1, d0

#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 2 Marked loss of gloss and or colour  
Class 4 Slight loss of gloss and or colour  
Class 1 Blisters and or delamination  
Class 3 Moderate loss of gloss and or colour