

Characteristic	Method	Unit of Measure	CGF
Nominal Thickness		mm	2-20
Surface Defects	EN438:2005-2-4		
	Dirt/Spots	mm ² /m ²	≤ 1
	Fibres/Hairs/Scratches	mm/m ²	≤ 10
Thickness	EN438:2005-2-5	mm	# 1
Length & Width	EN438:2005-2-6	mm	-0 / +10
Squareness	EN438:2005-2-7	mm/m	≤ 1.5
Edge Straightness	EN438:2005-2-8	mm/m	≤ 1.5
Flatness	EN438:2005-2-9	mm/m	# 2
Surface Wear Resistance	EN438:2005-2-10	revolutions	≥ 350
Immersion in Boiling Water	EN438:2005-2-12	Class	
	Gloss		3
	Other		4
	Mass Increase (2mm ≤ thickness < 5mm)	%	7
	Mass Increase (thickness ≥ 5mm)	%	3
	Mass Increase (2mm ≤ thickness < 5mm)	%	9
	Mass Increase (thickness ≥ 5mm)	%	6
Resistance to Water Vapour	EN438:2005-2-14	Class	
	Gloss		3
	Other		4
Resistance to Wet Conditions	EN438:2005-2-15	Class	
	Appearance		/
	Mass Increase (2mm ≤ thickness < 5mm)		/
	Mass Increase (thickness ≥ 5mm)		/
Resistance to Dry Heat (180°C)	EN438:2005-2-16	Class	
	Gloss		3
	Other		4
Dimensional Stability	EN438:2005-2-17	%	
	Longitudinal (2mm ≤ thickness < 5mm)		/
	(Thickness ≥ 5mm)		0.4
	Transverse (2mm ≤ thickness < 5mm)		0.3
	(Thickness ≥ 5mm)		/
			0.8
			0.6
Resistance to Climatic Shock	EN438:2005-2-19	Class	
	Appearance	Class	/
	Flexural Strength Index	Ds	/
	Flexural Modulus Index	Dm	/
Impact Resistance (Small Ball)	EN438:2005-2-20	N	/
Impact Resistance (Large Ball)	EN438:2005-2-21		
	Height of Fall (2mm ≤ thickness < 6mm)	mm	1400
	Height of Fall (thickness ≥ 5mm)	mm	1800
	Diameter of Imprint	mm	≤ 10
Resistance to Cracking	EN438:2005-2-23	Class	/
Resistance to Crazing	EN438:2005-2-24	Class	4
Scratch Resistance	EN438:2005-2-25	Class	
	Gloss		2
	Other		3
Stain Resistance	EN438:2005-2-26	Class	
	Group 1 & 2		5
	Group 3		4
Light Fastness	EN438:2005-2-27	Grey Scale	4 to 5
Resistance to UV	EN438:2005-2-28		
	Contrast (1500hr)	Grey Scale	/
	Appearance (1500hr)	Class	/
Resistance to Artificial Weathering	EN438:2005-2-29	Class	
	Contrast (335 MJ/m ²)		/
	Contrast (650 MJ/m ²)		/
	Appearance (325 MJ/m ²)		/
	Appearance (650 MJ/m ²)		/
Resistance to Cigarette Burns	EN438:2005-2-30	Class	3
Postforming Radius	EN438:2005-2-31	Minimum Radius mm	/
Resistance to Blistering	EN438:2005-2-33	Class	/
Density		g/cm ³	≥ 1.35
Fire Rating			/
	(4mm ≤ thickness < 6mm)		B,s2-d0
	(thickness ≥ 6mm)		B,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

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