

Nominal Thickness			mm	2-25
Surface Defects	Dirt/Spots Fibres/Hairs/Scratches	EN438:2016-2-4	mm/m2 mm/m2	≤ 1 ≤ 10
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	≥ 150
Immersion in Boiling Water		EN438:2016-2-12	Class	
	Gloss			3
	Other			4
	Mass Increase (2mm ≤ thickness < 5mm)		%	5.0
	Mass Increase (thickness ≥ 5mm)		%	2.0
	Thickness Increase (2mm ≤ thickness < 5mm)		%	6.0
	Thickness Increase (thickness ≥ 5mm)		%	2.0
	Edge rating			3
Resistance to Water Vapour		EN438:2016-2-14	Class	
	Gloss			3
	Other			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	
	Gloss			3
	Other			4
Resistance to Wet Heat (100°C)			Class	
	Gloss			3
	Other			4
Dimensional Stability		EN438:2016-2-17	%	
	Longitudinal			/
	(2mm ≤ thickness < 5mm)			0.4
	(Thickness ≥ 5mm)			0.3
	Transverse			/
	(2mm ≤ thickness < 5mm)			0.8
	(Thickness ≥ 5mm)			0.6
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		
	Height of Fall (2mm ≤ thickness < 6mm)		mm	1400
	Height of Fall (thickness ≥ 5mm)		mm	1600
Resistance to Cracking		EN438:2016-2-23	Class	/
Resistance to Crazing		EN438:2016-2-24	Class	4
Scratch Resistance		EN438:2016-2-25	Class	
	Smooth			2
	Textured			3
Stain Resistance		EN438:2016-2-26	Class	
	Group 1 & 2			5
	Group 3			4
Light Fastness		EN438:2016-2-27	Grey Scale	4 to 5
Resistance to UV		EN438:2016-2-28		
	Contrast (1500hr)		Grey Scale	/
	Appearance (1500hr)		Class	/
Resistance to Artificial Weathering		EN438:2016-2-29	Class	
	Contrast (335 MJ/m ²)			/
	Contrast (650 MJ/m ²)			/
	Appearance (325 MJ/m ²)			/
	Appearance (650 MJ/m ²)			/
Flexural Modulus		EN ISO 178	MPa (min)	9000
Flexural Strength		EN ISO 178	MPa (min)	80
Postforming Radius		EN438:2016-2-31	Minimum Radius mm	/
Resistance to Blistering		EN438:2016-2-33	Class	/
Density			g/cm ³	≥ 1.35
Fire Rating				D-s2, 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